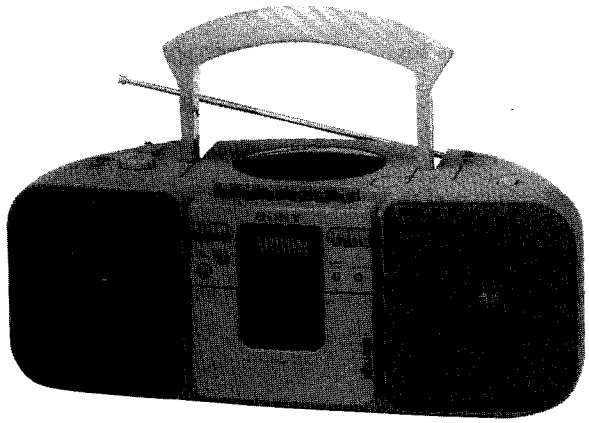
CFD-20/30

SERVICE MANUAL

US Model
Canadian Model
CFD-20

US Model
E Model
CFD-30



This photo is CFD-30 and white type.

CD Section	Model Name Using Similar Mechanism	CFD-58
	Optical Pickup Block Type	KSM-2101BAM
Cassette Deck Section	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	MF-CFD-20
		MF-CFD-30

SPECIFICATIONS

Audio Power Specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION
With 3.0-ohm loads, both channels driven from 150-15,000 Hz: rated 2.3 W per channel minimum RMS power, with no more than 10% total harmonic distortion in AC operation.

Other Specifications

CD player section

System	Compact disc digital audio system
Laser diode properties	Material: GaAlAs Wavelength 780 nm Emission duration: Continuous Laser output: less than 44.6 μW This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block.
Frequency response	20-20.000 Hz ±2 dB
Wow and flutter	Below measurable limit

Radio section

Frequency range	FM: 87.6-108 MHz AM: 530-1,710 kHz
Antennas	FM: Telescopic antenna AM: Built-in ferrite bar antenna

Tape recorder section and general

Recording system	4-track 2-channel stereo
Frequency response	70-10,000 Hz (with TYPE I (NORMAL) cassette)
Speaker	Full-range speakers: 10 cm dia., cone type
Power output (for Canada model)	4.6W (2.3 W + 2.3 W) (at 3.0 ohms, 10% harmonic distortion)
Input	Mixing microphone input jack (minijack) Sensitivity 2.5 mV For low impedance microphone
Output	Headphones jack (stereo minijack) For 16-68 ohms impedance headphones
Power requirements	120V AC, 60 Hz DC 9 V, 6 size D (R20) batteries
Power consumption	25 W

Battery life (hours)

	FM recording	Tape playing	CD playing
Sony SUM-1 (NS)	approx. 9	approx. 6	approx. 2.5
Sony Alkaline AM 1 (N)	approx. 16.5	approx. 11	approx. 4.5

Dimensions	Approx. 410 × 170 × 235 mm (w/h/d) (Approx. 16¼ × 6¾ × 9⅜ inches) incl. projecting parts and controls
Weight	Approx. 4.2 kg, incl. batteries (Approx. 9 lb 5 oz)
Supplied accessory	AC power cord (1)

Design and specifications subject to change without notice.

MICROFILM

CD RADIO CASSETTE-CORDER

SONY®

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

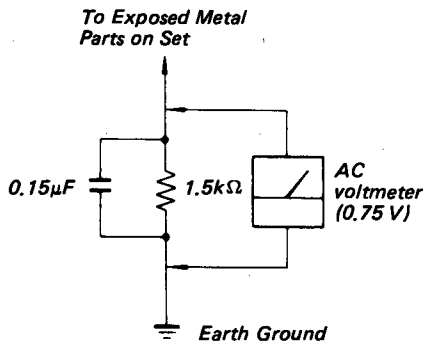


Fig. A. Using an AC voltmeter to check AC leakage.

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

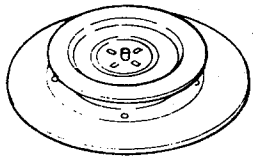
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 25 cm away from the objective lens.

CHUCK PLATE JIG ON REPAIRING

On repairing CD section, playing a disc without the CD lid, use Chuck Plate Jig.

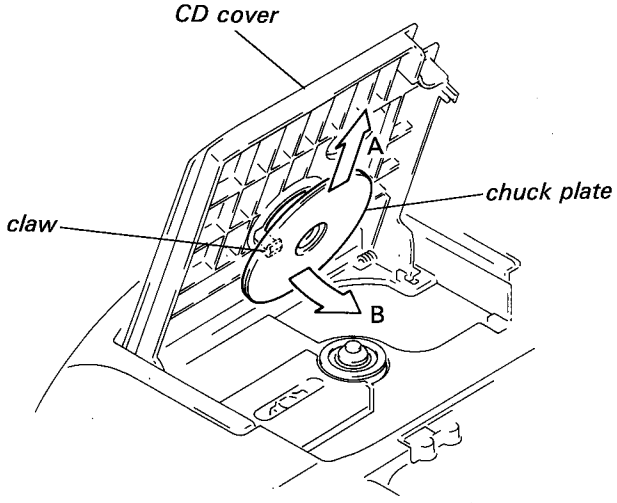
- Code number of Chuck Plate Jig: X-4918-255-1



Removing the chuck plate

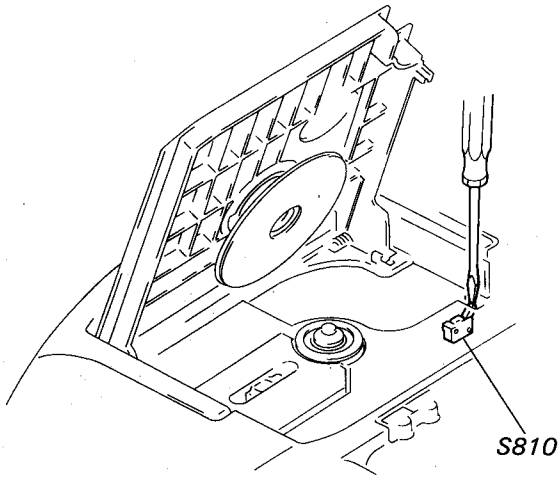
The chuck plate of this unit can be removed and used as a chuck plate jig.

1. Pull the chuck plate in the direction A.
2. Press the claw of the CD cover, and remove the chuck plate in direction B.



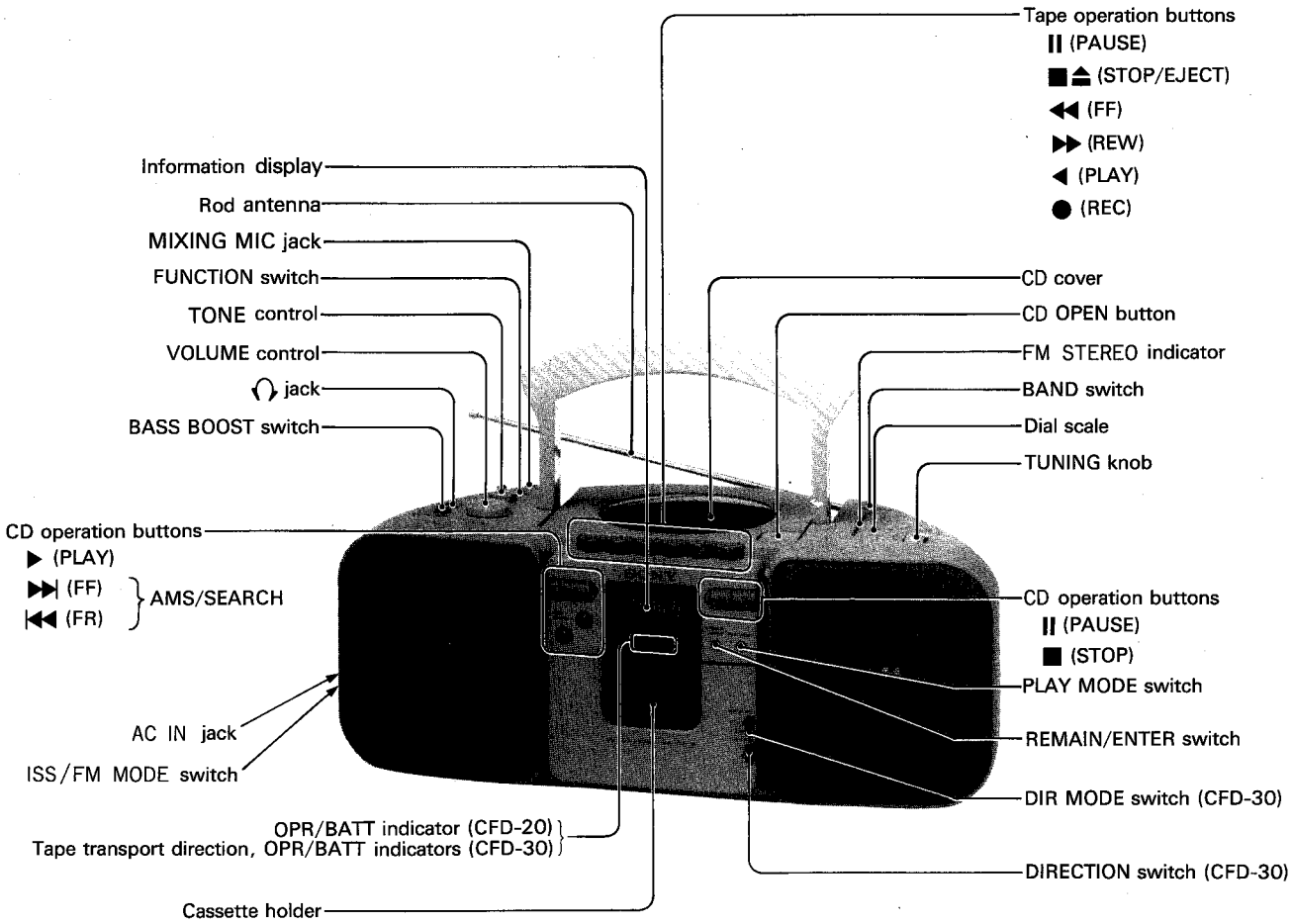
LASER DIODE AND FOCUS SEARCH OPERATION CHECK

1. Make Function switch to CD position with no disc inserted.
2. Open the lid for CD.
3. Turn on S810 as following figure.
4. Press ▶ key.
5. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken.
   Objective lens moves up and down once for the focus serarch.

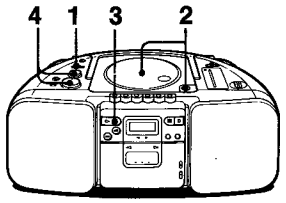


SECTION 2
GENERAL

LOCATION OF CONTROLS

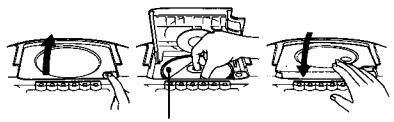


Playing a Disc—An 8 cm (3 inch) CD can be played without an adaptor.



1

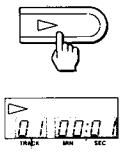
2 Place a disc.



Press completely. Label surface up

The number of selections in the disc and the total playing time will appear in the display window.

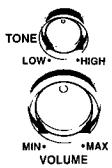
3



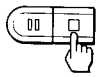
First selection

Elapsed playing time

4



To stop play



To turn off the unit
Set FUNCTION to TAPE CD/RADIO OFF.

Notes on compact discs

This way

Handle the disc by its edge.

Not this way

Do not touch the surface.

Not this way

Do not stick paper or tape nor write anything on the surface.

To pause: Press ▯▯. To resume play, press ▯▯ again.
To eject a disc: Press CD OPEN.

Do not press CD OPEN during playing
Otherwise, the disc will be damaged. Be sure to stop the disc first.

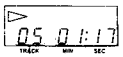
To reinforce the bass sound: Press BASS BOOST (⏥ ON).

While listening to the tape or radio
You can also adjust the sound with BASS BOOST.

Note on BASS BOOST
BASS BOOST is most effective around the third position from MIN of the volume range. Even if you raise the volume more, the BASS BOOST effect will be negligible.

Information Display

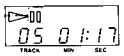
During playing



Selection number being played

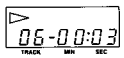
Elapsed playing time

While CD player is set in pause

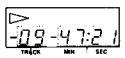


Pause indication appears

Between selections
Remaining time until the next selection is displayed.



To display the remaining time in the disc being played
Press REMAIN/ENTER



Remaining number of selections

Total remaining time in disc

To return to the normal display, press REMAIN/ENTER again.

Note
During shuffle or program play, the remaining time in the disc is not displayed even if REMAIN/ENTER is pressed.

Locating a Particular Portion

Locating a particular selection (AMS)*	To locate the beginning of the current selection AMS SEARCH ⏮ Press once.	To locate the next selection AMS SEARCH ⏭ Press once.
Locating a particular point in a selection (SEARCH)	To go back at high speed AMS SEARCH ⏮ Keep pressed.	To go ahead at high speed AMS SEARCH ⏭ Keep pressed.

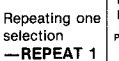
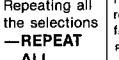
*AMS is the abbreviation of Automatic Music Sensor.

Notes on the AMS function

- The player pauses at the beginning of the located selection when you press ⏮ or ⏭ in pause mode.
- If you press ⏮ repeatedly, the player locates the previous selections. If you press ⏭ repeatedly, the player locates the selections ahead and stops at the last selection.

Selecting Various Playing Modes

Each time PLAY MODE is pressed, play mode changes as follows. To stop the disc, press □.
Operate while listening to the disc. However, select INTRO scan play when disc is not being played.

Play mode	Button to be pressed	Front display window
Scanning all the selections **—INTRO scan play**	❶ Press PLAY MODE once when disc is not being played. PLAY MODE	
Beginnings of selections are played for 10 seconds successively.	❷ Press ▷ Scanning starts from the first selection.	
Repeating one selection **—REPEAT 1**	Press PLAY MODE once more while listening to the desired selection. PLAY MODE Press ⏮ or ⏭ for another selection.	
Repeating all the selections **—REPEAT ALL**	Press PLAY MODE once more. When play reaches the end of the disc, it starts again from the first selection. PLAY MODE	
Playing repeatedly in a random order **—REPEAT SHUTTLE**	Press PLAY MODE once more. PLAY MODE	
Playing in the desired order repeatedly **—REPEAT PGM (program)**	❶ Press PLAY MODE once more. PLAY MODE	
	❷ Choose the desired selection with ⏮ or ⏭ AMS SEARCH ⏮ ⏭	 Program 1 5th Selection
	❸ Press REMAIN/ENTER REMAIN/ENTER The selection is stored.	 Program 2
	❹ Repeat steps ❷ and ❸. (Up to 16 selections)	
	❺ Press ▷. MEM disappears and play starts.	
Playing in the desired order once **—PGM (program)**	❶ Press PLAY MODE once more. PLAY MODE	
	❷ Repeat steps ❷ to ❺ above.	
To return to normal play, press PLAY MODE once more.		

When you open the disc holder or you press ⏏
All the programmed selections are cleared.

If another selection is stored after 16 selections have been stored
The first selection will be cleared and the new one will be stored in its place.

This section is extracted from instruction manual.

SECTION 4
MECHANICAL ADJUSTMENT

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback head — pinch roller
   erase head — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be perfomed with the rated power supply voltage unless otherwise noted.
6. Power supply voltage : 9V dc.

Torque Measurement

Torque	Torque meter	Meter reading
Forward	CQ-102C	30—75g • cm (0.41—1.04 oz • inch)
Forward back tension	CQ-102C	1.5—6g • cm (0.020—0.083 oz • inch)
Reverse	CQ-102RC	30—75g • cm (0.41—1.04 oz • inch)
Reverse back tension	CQ-102RC	1.5—6g • cm (0.020—0.083 oz • inch)
Fast Forward	CQ-201B	60—130g • cm (0.83—1.80 oz • inch)
Rewind	CQ-201B	60—130g • cm (0.83—1.80 oz • inch)

Tape Tension Measurement (CFD-20)

Mode	Meter	Meter reading
Forward	CQ-403A	more than 150g (more than 5.28 oz)

Tape Tension Measurement (CFD-30)

Mode	Meter	Meter reading
Forward	CQ-403A	more than 90g (more than 3.16 oz)
Reverse	CQ-403R	

SECTION 5
ELECTRICAL ADJUSTMENT

5-1. TAPE RECORDER SECTION

Note : The adjustment should be performed in the order given in the service manual. As a rule, adjustment about playback should be performed before adjustment about recording.
The adjustments should be performed for both L-CH and R-CH.

Standard Output Level

Output terminal	PHONES
load impedance	32Ω
output signal level	0.25V (−10dB)

0dB=0.775V

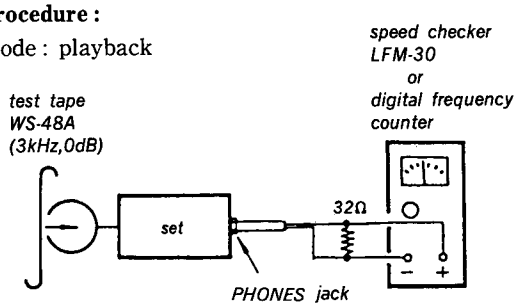
Test Tape

Type	Signal	Used for
WS-48A	3kHz, 0dB	tape speed adjustment
P-4-A063	6.3kHz, −10dB	azimuth adjustment

Tape Speed Adjustment

Procedure :

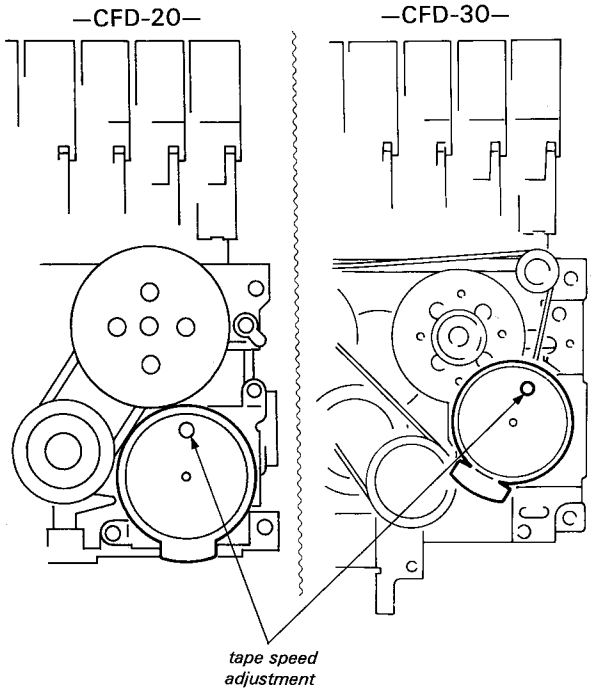
Mode : playback



Adjustment Value :

Speed checker	Digital frequency counter
−1.5% to +1.5%	2,955 to 3,045Hz

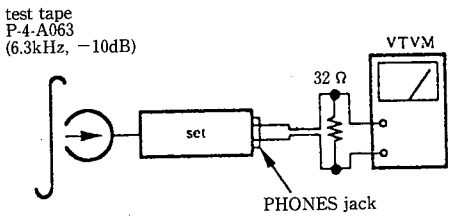
Adjustment Location : Mechanism Deck block



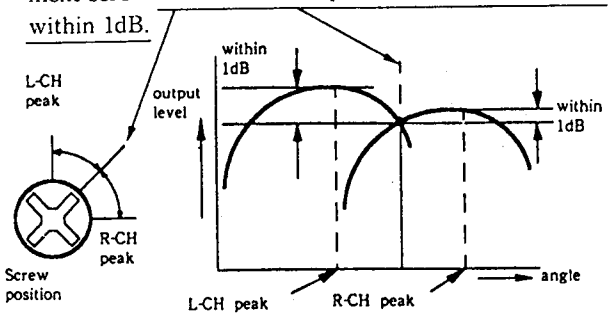
Record/Playback Head Azimuth Adjustment

Procedure :

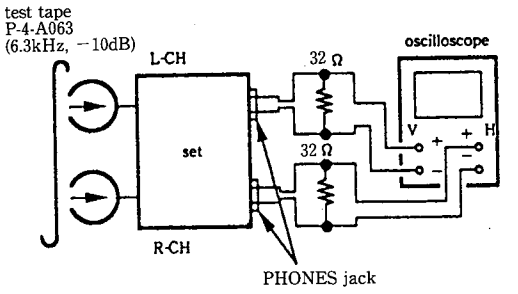
1. Mode: FWD playback

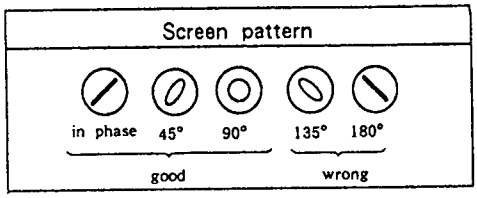


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.



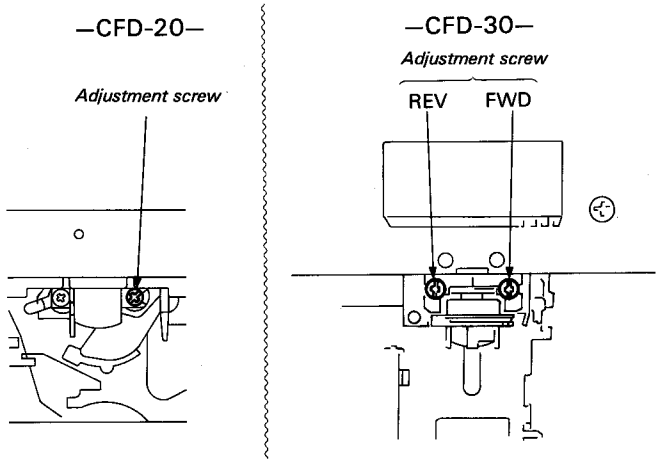
3. Phase Check
   Mode: playback





4. Set in the REV mode and repeat the step 1-3. (CFD-30)
5. After the adjustment, lock the screws with locking compound.

Adjustment Location : Record/playback head



Record Bias Adjustment

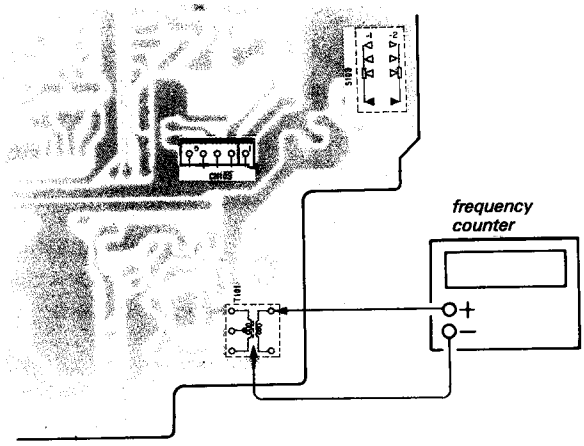
Procedure :

Mode : REC
ISS/FM MODE switch : 2/STEREO

Procedure :

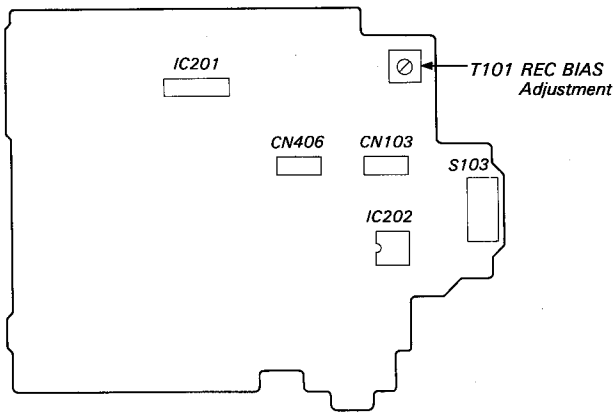
1. Connect the frequency counter as shown below.
2. Adjust with T101 so that the reading on the frequency counter becomes 76kHz.

【AUDIO BOARD】 (CONDUCTOR SIDE)



Adjustment Location :

【AUDIO BOARD】 (COMPONENT SIDE)

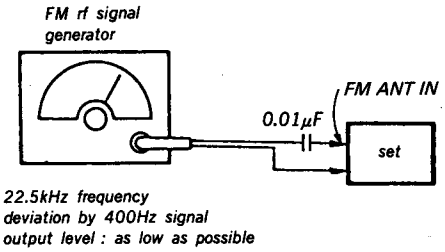


5-2. RADIO SECTION

• FM Section

Setting :

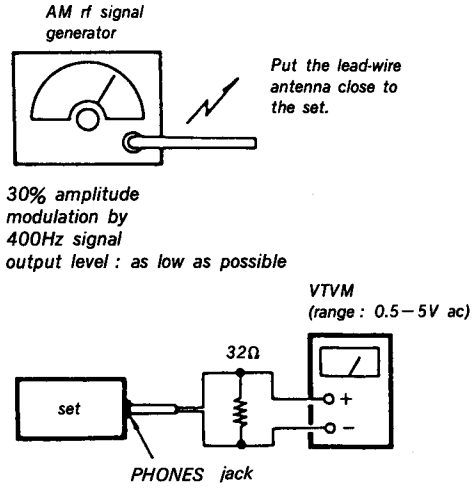
FUNCTION switch : FM



• AM Section

Setting :

FUNCTION switch : AM



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM Frequency Coverage Adjustment	
Adjust for a maximum reading on VTVM.	
L2	CT2
86.5MHz	109.5MHz

FM Tracking Adjustment	
Adjust for a maximum reading on VTVM.	
L1	CT1
90MHz	106MHz

AM IF Adjustment
Adjust for a maximum reading on VTVM.
T1
455kHz

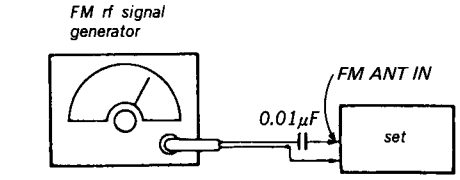
AM Frequency Coverage Adjustment	
Adjust for a maximum reading on VTVM.	
L3	CT4
515kHz	1,780kHz

AM Tracking Adjustment	
Adjust for a maximum reading on VTVM.	
L4	CT3
600kHz	1,400kHz

Adjustment Location see page13.

FM VCO Adjustment

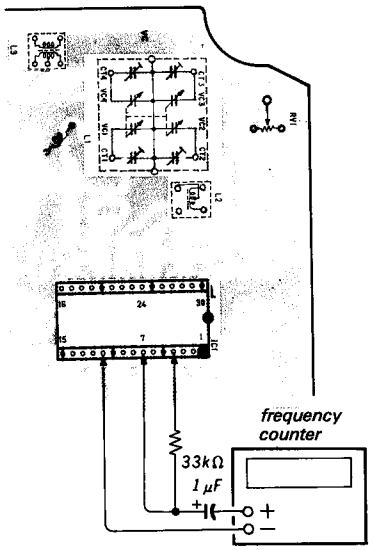
Procedure :



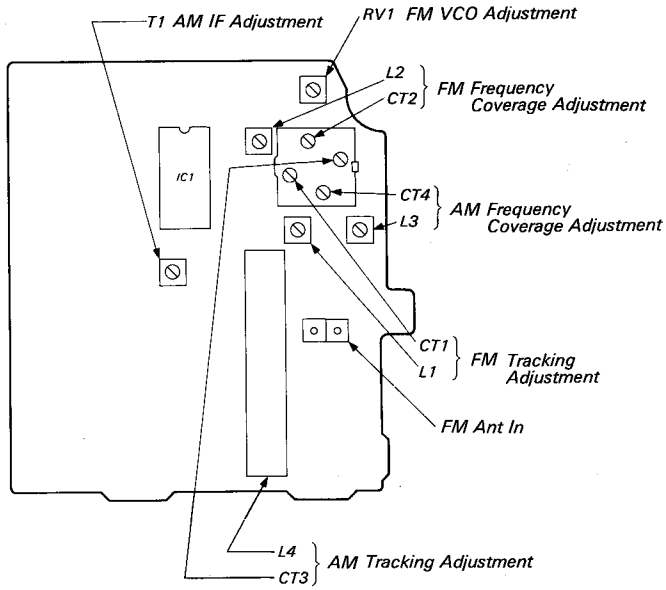
Carrier frequency : 98MHz
Modulation : no modulation
Output level : 0.1V (100dB)

1. Connect the frequency counter as shown below.
2. Tune the set to 98MHz.
3. Adjust RV1 for 76kHz±0.3kHz reading on the frequency counter.

[TUNER BOARD] (conductor side)



Adjustment Location : TUNER board (component side)



5-3. CD SECTION

Notes on Adjustment

1. Perform adjustment in test mode.
   After adjustment, be sure to release test mode.
2. Perform adjustments in the order given.
3. Use the disc (YEDS-18, Part No. 3-702-101-01) only when so indicated.

Before Adjustment

Put the set into test mode and perform the following checks.
Repair if there are any problems.

- **Sled Motor Check**

1. Press ▶ key, then press ■ key.
2. Press ▶▶| , |◀◀ keys and comfirm that the FOP moves smoothly from the innermost to outermost circumference and back smoothly and with no catching or abnormal noises. (Cancellation of BTL mute.)
   ▶▶| : FOP moves to the outer circumference
   |◀◀ : FOP moves to the inner ciecumference

- **Focus Search Check**

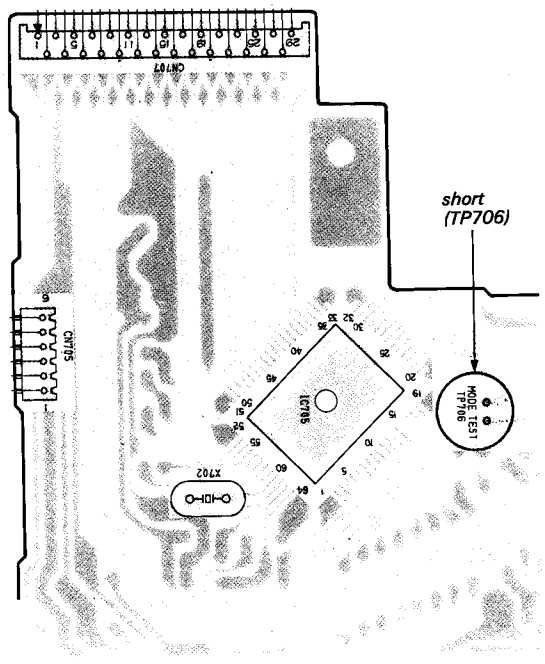
1. Press ▶ key. (Focus search operation is performed continuously.)
2. Look at the FOP objective lens and confirm that it moves up and down smoothly, with no catching or abnormal noises.
3. Press ■ key.
   Confirm that focus search operation stops. If it does not, press ■ key again longer.

Note : When the malfunction is occured by mis-passing other keys, turn off the power and check again from making the test mode.

How to Put the Set into Test Mode

1. Short-circuit follwing portion (TP706) on the CD MAIN board.
2. Turn the POWER on.
3. Release the short.

【CD MAIN BOARD】 (conductor side)

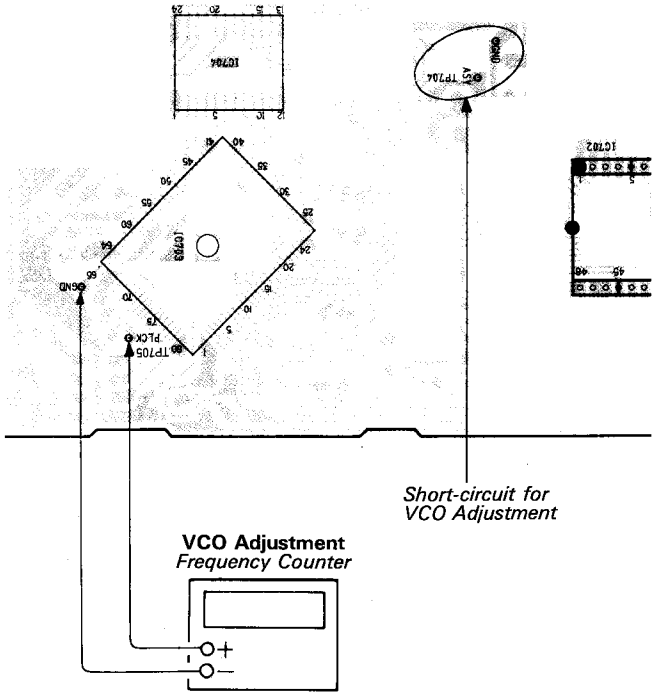


VCO Adjustment

1. Short-circuit the TP704 (ASY) and GND on the CD MAIN board.
2. Connect the frequency counter to the TP705 (PLCK).
3. Adjust with RV704 so that the reading on the frequency counter becomes 4.3218 MHz.
4. Release the short.

Adjustment Location: CD MAIN board (See page 15)

【CD MAIN BOARD】 (conductor side)

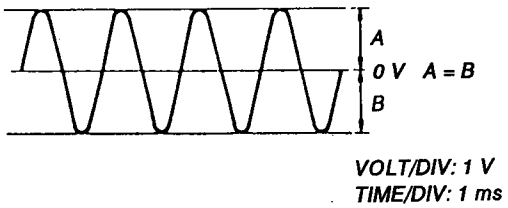


E. F Balance Adjustment

This adjustment is to be done when the optical block is replaced.

Adjustment Procedure:

1. Connect the oscilloscope between IC701 pins ⑳ and ⑨.
2. Put the set into test mode. (See page 14)
3. Press the ▶▶| and |◀◀ keys to move the FOP to the center.
4. Insert disc (YEDS-18) and press ▶ key.
5. Adjust RV701 so that the oscilloscope traverse waveform is symmetrical, as shown in the figure below.
6. Release test mode after adjustment is completed.



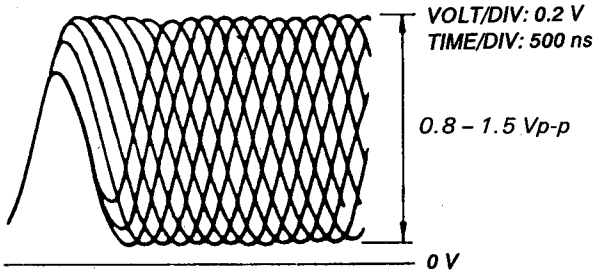
Focus Bias Adjustment

This adjustment is to be done when the optical block replaced.

Adjustment Procedure:

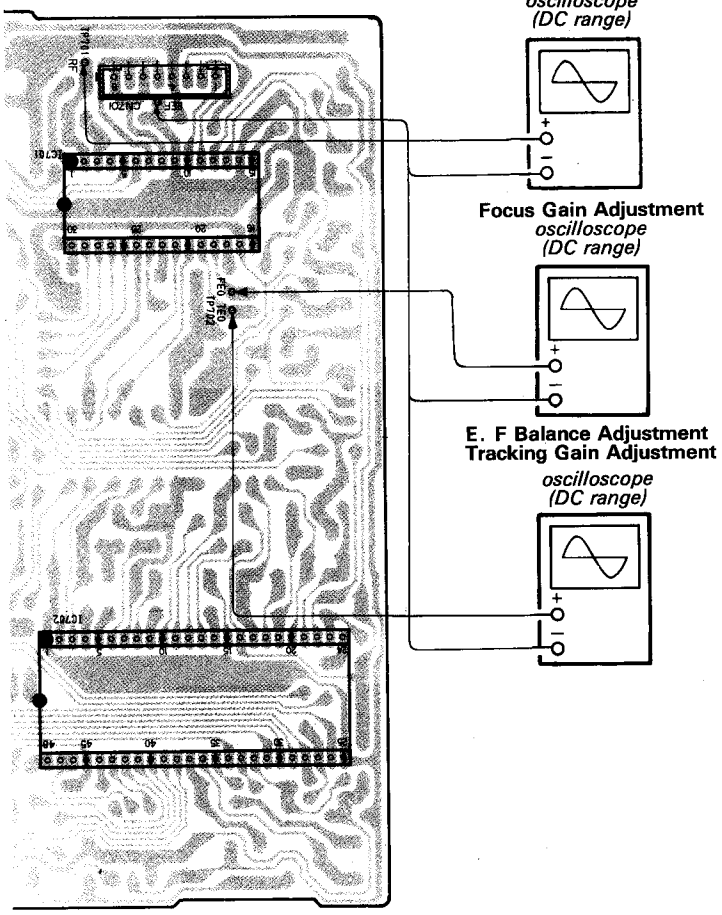
1. Connect the oscilloscope between IC701 pins ② and ⑨.
2. Put the set into test mode. (See page 14)
3. Press the ▶▶| and |◀◀ keys to move the FOP to the center. (Move the FOP to the music area on the disc to enable easy visibility of the eye pattern.)
4. Insert disc (YEDS-18) and press ▶ key.
5. Adjust RV705 so that the oscilloscope waveform os as shown in the figure below (eye pattern).
   A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.
6. Release test mode after adjustment is completed.

- RF signal reference waveform (eye pattern)

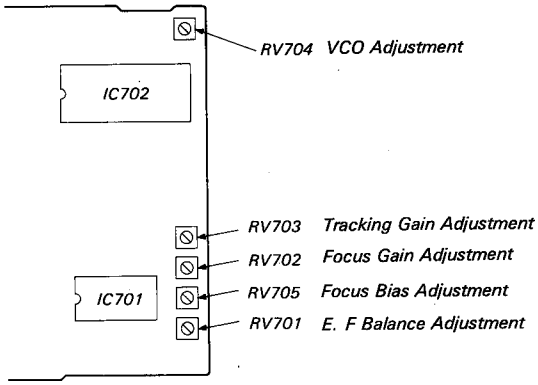


When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensivity.

【CD MAIN BOARD】 (conductor side)



Adjustment Location : CD MAIN board (component side)



5-4. REFERENCE

Focus/Tracking Gain Adjustment

A frequency response analyzer is necessary in order to perform this adjustment exactly.
However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.
Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.
However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

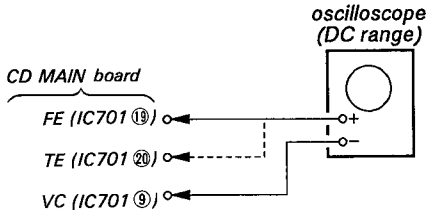
Symptoms / Tracking	Gain	Focus
• The time until music starts becomes longer for STOP ➡ ▶ PLAY or automatic selection (⏮ , ⏭ buttons pressed). (Normally takes about 2 seconds.)	low	low or high
• Music does not start and disc continues to rotate for STOP ➡ ▶ PLAY or automatic selection (⏮ , ⏭ buttons pressed).	—	low
• Sound is interrupted during PLAY. Or time counter display stops progressing.	—	low
• More poise during 2-axis device operation.	high	high

The following is a simple adjustment method.

– Simple Adjustment –

Note: Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

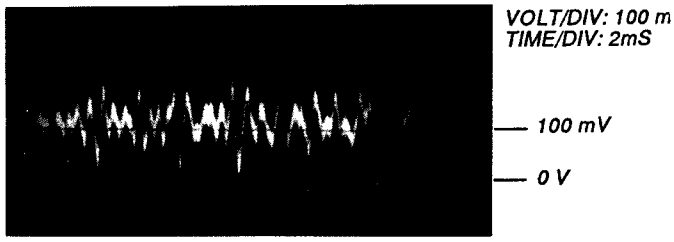
Procedure:



1. Keep the set horizontal.
   (If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.)
2. Insert disc (YEDS-18) and press ▶ PLAY button.
3. Connect the oscilloscope between IC701 pins ⑲ and ⑨.
4. Adjsutment RV702 so that the waveform is as shown in the figure below. (focus gain adjustment)

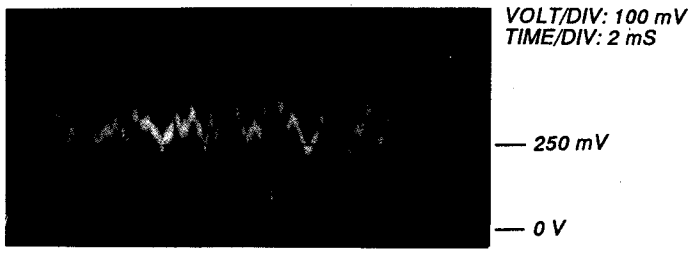
Adjustment Location: CD MAIN board (See page 15)

- Correct Example

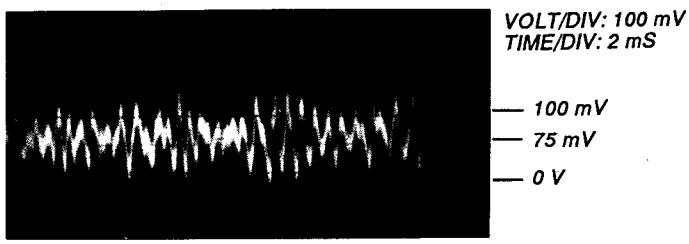


- Incorrent Examples (DC level changes more than on adjusted waveform)

low focus gain



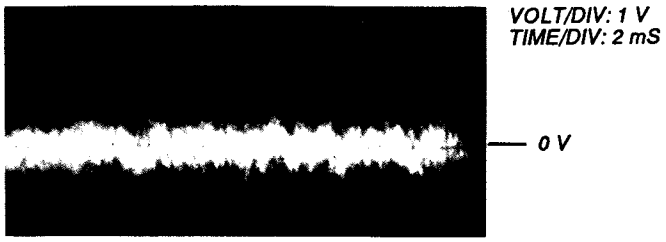
high focus gain



5. Connect the oscilloscope between IC701 pins ⑳ and ⑨.
6. Adjust RV703 so that the waveform is as shown in the figure below. (tracking gain adjustment)

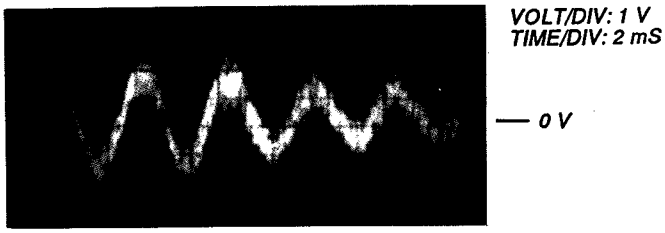
Adjustment Location: CD MAIN board (See page 15)

- Correct Example



- Incorrect Examples (fundamental wave appears)

low tracking gain



high tracking gain
(higher fundamental wave than for low gain)

SECTION 7
EXPLODED VIEWS

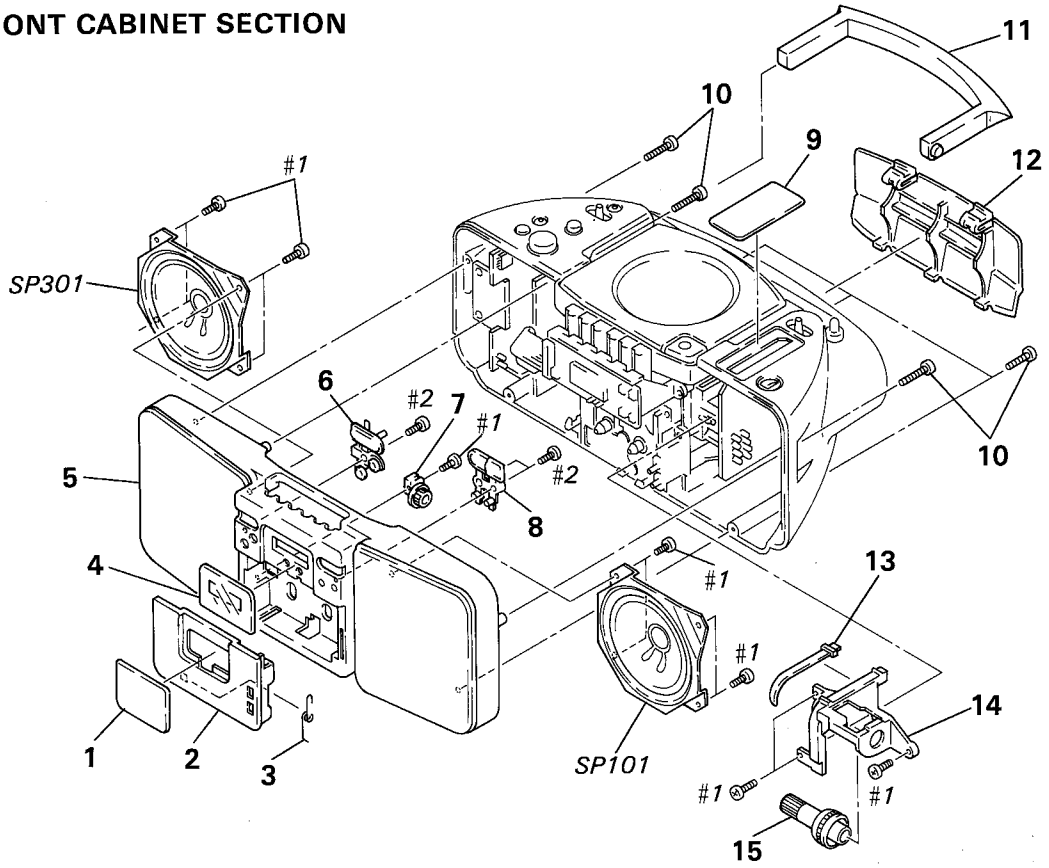
NOTE:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE(WHITE)...(RED)
  ↑ ↑
  Parts color Cabinet's color

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- hardware (#mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. FRONT CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	3-378-214-01	WINDOW (A/R), CASSETTE (CFD-30)	
1	3-378-219-01	WINDOW, CASSETTE (CFD-20)	
2	3-380-985-01	HOLDER, CASSETTE (WHITE) (CFD-20)	
2	3-380-985-11	HOLDER, CASSETTE (BLACK) (CFD-20)	
2	3-380-985-21	HOLDER, CASSETTE (BLUE) (CFD-20)	
2	3-381-132-01	HOLDER, CASSETTE (WHITE) (CFD-30)	
2	3-381-132-11	HOLDER, CASSETTE (BLACK) (CFD-30)	
2	3-381-132-21	HOLDER, CASSETTE (BLUE) (CFD-30)	
3	3-380-713-01	SPRING, CASSETTE	
4	3-378-212-01	WINDOW (A/R), LCD (CFD-30)	
4	3-378-218-01	WINDOW, LCD (CFD-20)	
5	X-3365-333-1	CABINET (FRONT) SUB ASSY (WHITE) (CFD-20)	
5	X-3365-334-1	CABINET (FRONT) SUB ASSY (BLACK) (CFD-20)	
5	X-3365-335-1	CABINET (FRONT) SUB ASSY (BLUE) (CFD-20)	
5	X-3365-356-1	CABINET (FRONT) SUB ASSY (WHITE) (CFD-30)	
5	X-3365-357-1	CABINET (FRONT) SUB ASSY (BLACK) (CFD-30)	
5	X-3365-358-1	CABINET (FRONT) SUB ASSY (BLUE) (CFD-30)	
6	3-380-095-01	KNOB, CD (A) (WHITE)	
6	3-380-095-11	KNOB, CD (A) (BLACK)	
6	3-380-095-21	KNOB, CD (A) (BLUE)	
7	3-380-711-01	DAMPER, CASSETTE HOLDER	

Ref. No.	Part No.	Description	Remark
8	3-380-096-01	KNOB, CD (B) (WHITE)	
8	3-380-096-11	KNOB, CD (B) (BLACK)	
8	3-380-096-21	KNOB, CD (B) (BLUE)	
9	3-378-215-01	WINDOW, DIAL (WHITE)	
9	3-378-215-11	WINDOW, DIAL (BLACK)	
9	3-378-215-21	WINDOW, DIAL (BLUE)	
10	3-380-715-01	SCREW (3X27.5) (WHITE)	
10	3-380-716-01	SCREW (3X28) (BLACK, BLUE)	
11	3-380-085-01	HANDLE (WHITE)	
11	3-380-085-11	HANDLE (BLACK)	
11	3-380-085-21	HANDLE (BLUE)	
12	3-380-103-31	COVER, BATTERY (WHITE)	
12	3-380-103-41	COVER, BATTERY (BLACK)	
12	3-380-103-51	COVER, BATTERY (BLUE)	
13	3-380-087-01	GEAR, POINTER	
14	3-380-093-01	CHASSIS, TUNING	
15	3-380-086-01	KNOB (TUNING) (WHITE)	
15	3-380-086-11	KNOB (TUNING) (BLACK)	
15	3-380-086-21	KNOB (TUNING) (BLUE)	
SP101	1-544-743-11	SPEAKER R	
SP301	1-544-743-11	SPEAKER L	

SECTION 7
EXPLODED VIEWS

NOTE:
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  Example:
  KNOB, BALANCE(WHITE)...(RED)
  ↑ ↑
  Parts color Cabinet's color

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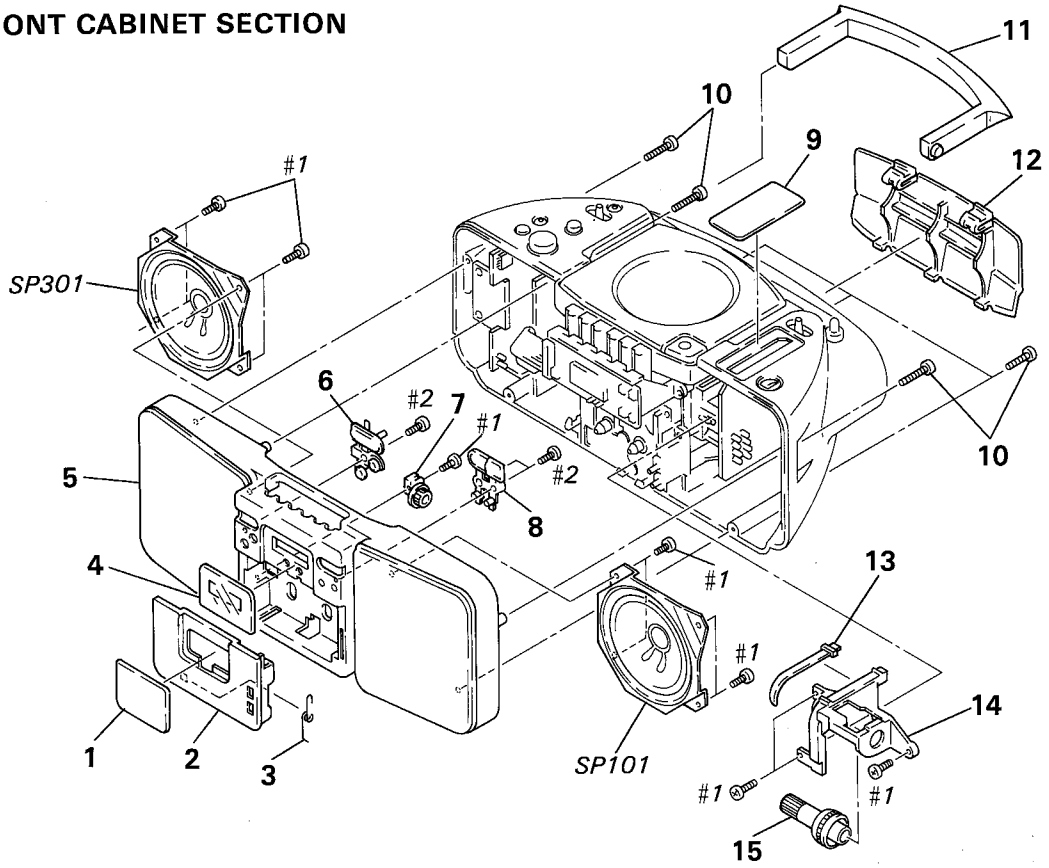
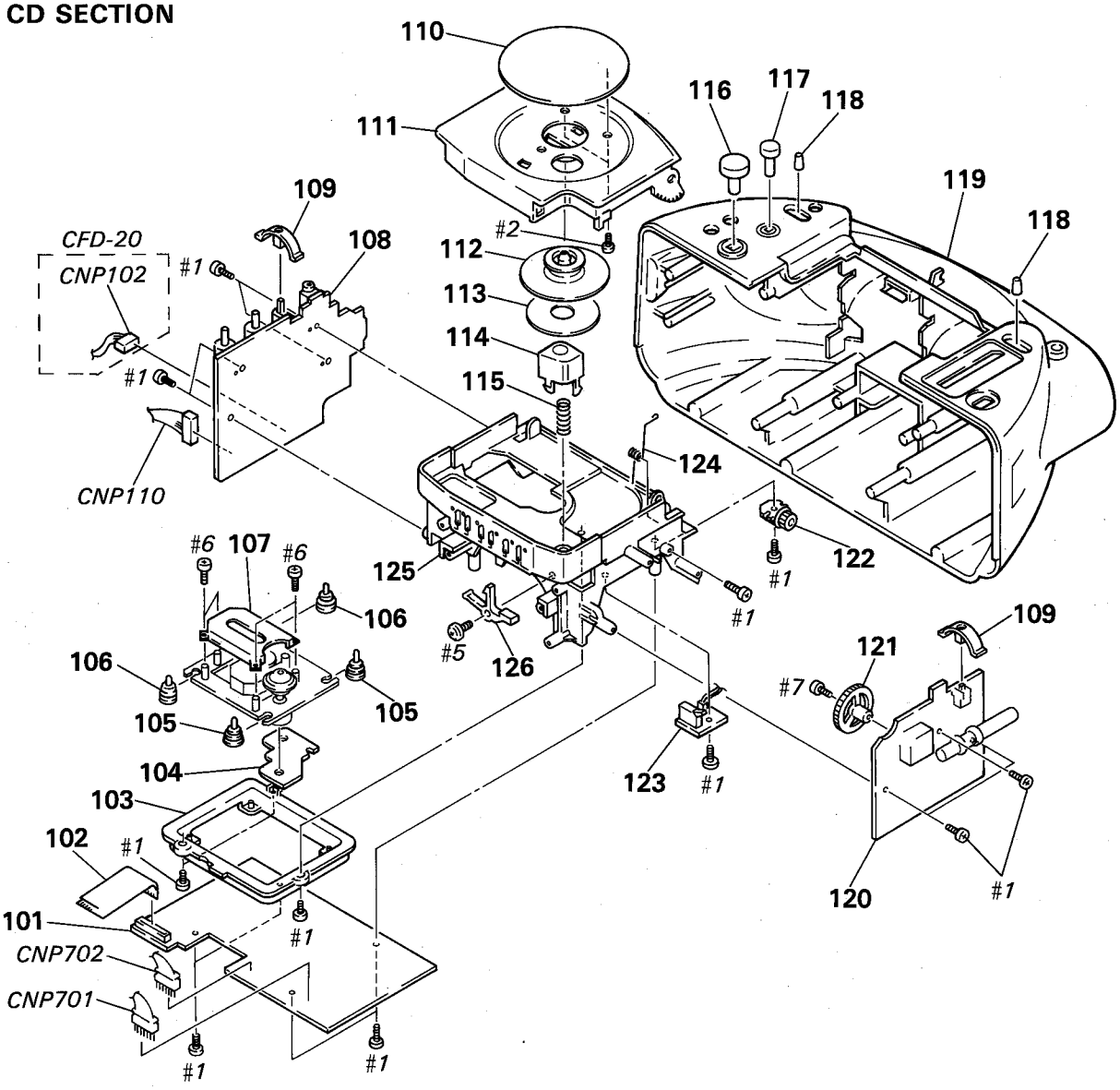
7-1. FRONT CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	3-378-214-01	WINDOW (A/R), CASSETTE (CFD-30)	
1	3-378-219-01	WINDOW, CASSETTE (CFD-20)	
2	3-380-985-01	HOLDER, CASSETTE (WHITE) (CFD-20)	
2	3-380-985-11	HOLDER, CASSETTE (BLACK) (CFD-20)	
2	3-380-985-21	HOLDER, CASSETTE (BLUE) (CFD-20)	
2	3-381-132-01	HOLDER, CASSETTE (WHITE) (CFD-30)	
2	3-381-132-11	HOLDER, CASSETTE (BLACK) (CFD-30)	
2	3-381-132-21	HOLDER, CASSETTE (BLUE) (CFD-30)	
3	3-380-713-01	SPRING, CASSETTE	
4	3-378-212-01	WINDOW (A/R), LCD (CFD-30)	
4	3-378-218-01	WINDOW, LCD (CFD-20)	
5	X-3365-333-1	CABINET (FRONT) SUB ASSY (WHITE) (CFD-20)	
5	X-3365-334-1	CABINET (FRONT) SUB ASSY (BLACK) (CFD-20)	
5	X-3365-335-1	CABINET (FRONT) SUB ASSY (BLUE) (CFD-20)	
5	X-3365-356-1	CABINET (FRONT) SUB ASSY (WHITE) (CFD-30)	
5	X-3365-357-1	CABINET (FRONT) SUB ASSY (BLACK) (CFD-30)	
5	X-3365-358-1	CABINET (FRONT) SUB ASSY (BLUE) (CFD-30)	
6	3-380-095-01	KNOB, CD (A) (WHITE)	
6	3-380-095-11	KNOB, CD (A) (BLACK)	
6	3-380-095-21	KNOB, CD (A) (BLUE)	
7	3-380-711-01	DAMPER, CASSETTE HOLDER	

Ref. No.	Part No.	Description	Remark
8	3-380-096-01	KNOB, CD (B) (WHITE)	
8	3-380-096-11	KNOB, CD (B) (BLACK)	
8	3-380-096-21	KNOB, CD (B) (BLUE)	
9	3-378-215-01	WINDOW, DIAL (WHITE)	
9	3-378-215-11	WINDOW, DIAL (BLACK)	
9	3-378-215-21	WINDOW, DIAL (BLUE)	
10	3-380-715-01	SCREW (3X27.5) (WHITE)	
10	3-380-716-01	SCREW (3X28) (BLACK, BLUE)	
11	3-380-085-01	HANDLE (WHITE)	
11	3-380-085-11	HANDLE (BLACK)	
11	3-380-085-21	HANDLE (BLUE)	
12	3-380-103-31	COVER, BATTERY (WHITE)	
12	3-380-103-41	COVER, BATTERY (BLACK)	
12	3-380-103-51	COVER, BATTERY (BLUE)	
13	3-380-087-01	GEAR, POINTER	
14	3-380-093-01	CHASSIS, TUNING	
15	3-380-086-01	KNOB (TUNING) (WHITE)	
15	3-380-086-11	KNOB (TUNING) (BLACK)	
15	3-380-086-21	KNOB (TUNING) (BLUE)	
SP101	1-544-743-11	SPEAKER R	
SP301	1-544-743-11	SPEAKER L	

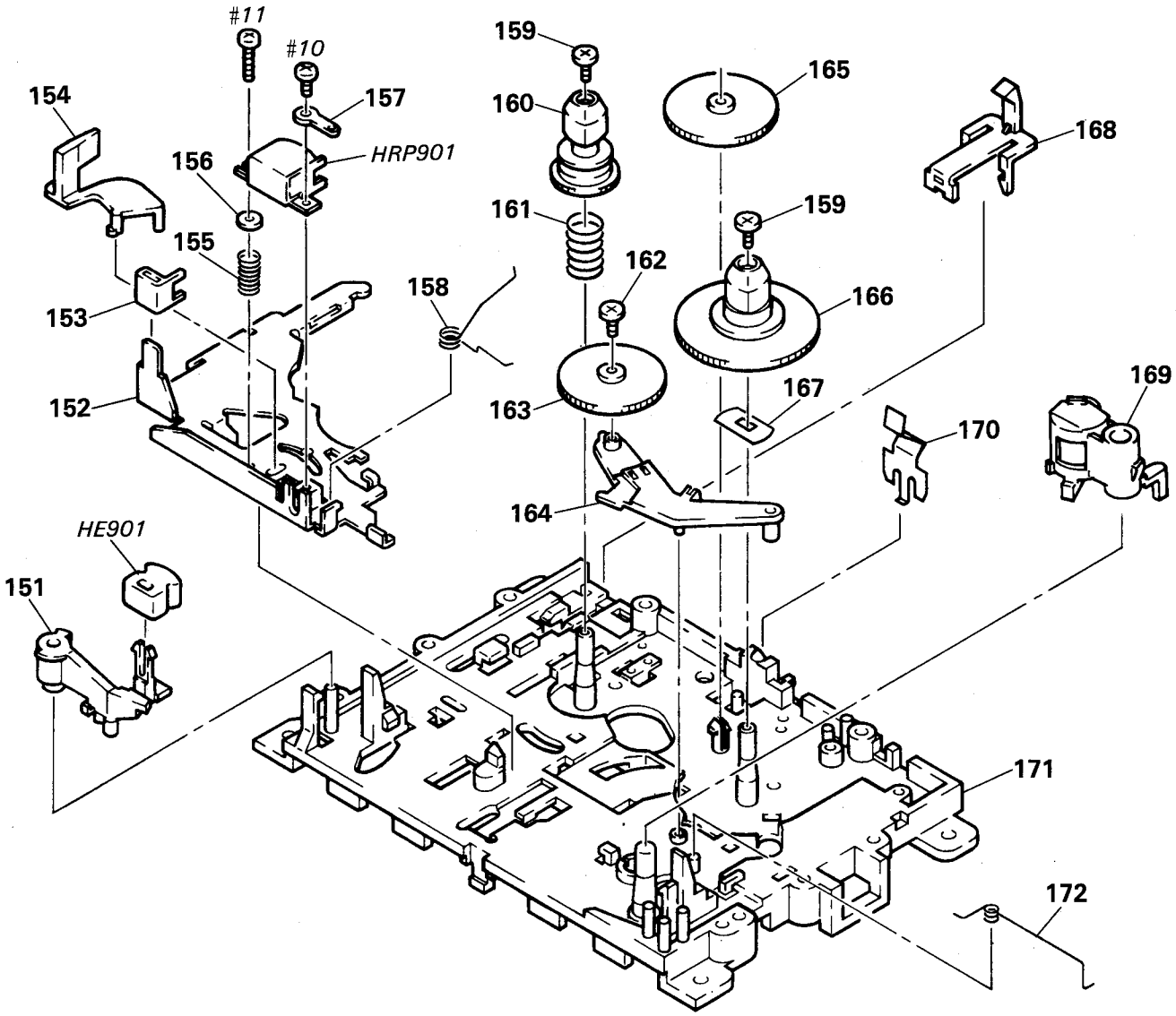
7-3. CD SECTION



Ref. No.	Part No.	Description	Remark
* 101	A-3275-519-A	CD MAIN BOARD, COMPLETE	
102	1-696-020-11	CABLE, FLAT	
* 103	3-380-080-01	HOLDER, CD	
104	1-636-789-13	MOTOR BOARD	
105	3-380-720-01	CUSHIONM CD	
* 106	3-381-610-01	CUSHION, CD (BLK)	
* 107	3-380-724-01	COVER, MD, CD	
* 108	A-3262-671-A	AUDIO BOARD, COMPLETE (CFD-30)	
* 108	A-3262-694-A	AUDIO BOARD, COMPLETE (CFD-20)	
109	3-380-070-01	KNOB, LEVER (WHITE)	
109	3-380-070-11	KNOB, LEVER (BLACK)	
109	3-380-070-21	KNOB, LEVER (BLUE)	
110	3-380-078-01	WINDOW, CD	
111	3-380-097-31	COVER, CD (WHITE)	
111	3-380-097-41	COVER, CD (BLACK)	
111	3-380-097-51	COVER, CD (BLUE)	
112	3-380-721-01	CHUCK PLATE	
* 113	3-381-611-01	SHEET, CHUCK HOLDER	
114	3-380-074-01	KNOB, CD EJECT (WHITE)	
114	3-380-074-11	KNOB, CD EJECT (BLACK)	
114	3-380-074-21	KNOB, CD EJECT (BLUE)	
115	3-380-719-01	SPRING, CD EJECT	
116	3-380-064-01	KNOB, VOLUME (WHITE)	
116	3-380-064-11	KNOB, VOLUME (BLACK)	

Ref. No.	Part No.	Description	Remark
116	3-380-064-21	KNOB, VOLUME (BLUE)	
117	3-380-063-01	KNOB, TONE (WHITE)	
117	3-380-063-11	KNOB, TONE (BLACK)	
117	3-380-063-21	KNOB, TONE (BLUE)	
118	3-380-071-01	KNOB, LEVER (TOP) (WHITE)	
118	3-380-071-11	KNOB, LEVER (TOP) (BLACK)	
118	3-380-071-21	KNOB, LEVER (TOP) (BLUE)	
119	3-380-988-31	CABINET (REAR) (WHITE)	
119	3-380-988-41	CABINET (REAR) (BLACK)	
119	3-380-988-51	CABINET (REAR) (BLUE)	
* 120	A-3262-693-A	TUNER BOARD, COMPLETE	
121	3-380-075-01	PULLEY GEAR	
122	3-380-722-01	DAMPER, CD	
* 123	1-644-514-11	CD LEAF SW BOARD	
124	3-380-714-01	SPRING, CD COVER	
125	3-380-725-01	CHASSIS, CD (WHITE)	
125	3-380-725-11	CHASSIS, CD (BLACK)	
125	3-380-725-21	CHASSIS, CD (BLUE)	
126	3-380-083-01	LEVER, CD EJECT	
* CNP102	1-695-174-11	CONNECTOR 4P (CFD-20)	
* CNP110	1-695-149-11	CONNECTOR 6P (CFD-30)	
* CNP110	1-695-176-11	CONNECTOR 4P (CFD-20)	
* CNP702	1-695-150-11	CONNECTOR 8P	
* CNP701	1-695-170-11	CONNECTOR 8P	

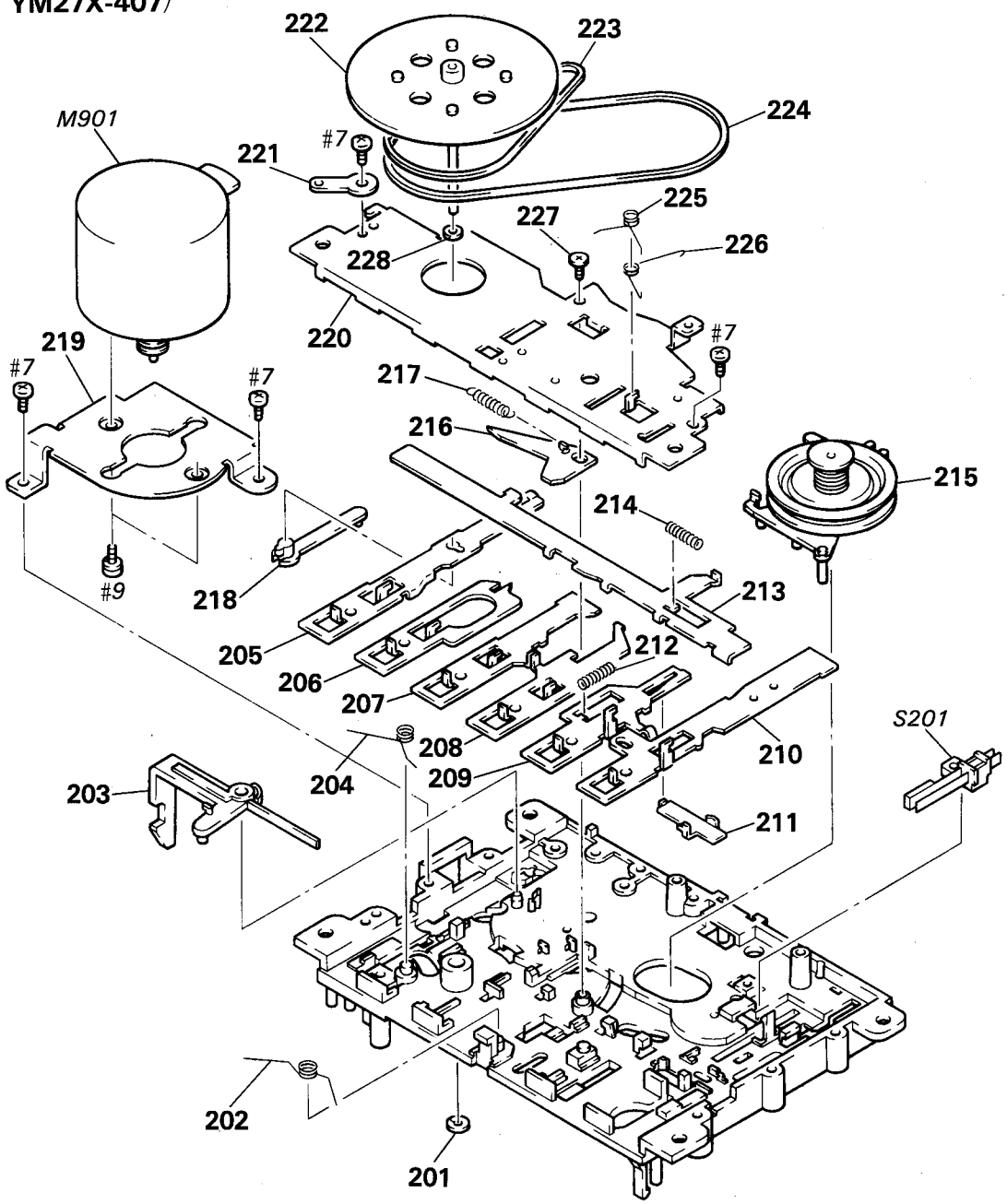
7-4. MECHANISM DECK SECTION-1 (CFD-20)
(MF-CFD-20
: YM27X-407)



Ref. No.	Part No.	Description	Remark
151	3-391-055-01	E HEAD ARM	
* 152	4-895-015-01	HEAD BASE	
153	4-895-016-01	TAPE GUIDE	
154	4-894-956-01	TAPE SENSOR	
155	4-894-955-01	C SPRING	
156	3-390-823-01	WASHER, F	
157	3-390-817-01	LUG	
158	3-391-078-01	PINCH SPRING	
159	3-390-803-01	BUSHING (D)	
160	4-894-953-01	S REEL	
161	4-894-954-01	C SPRING	
162	4-894-960-01	BUSH	
163	4-894-961-01	IDLER GEAR	
164	4-894-962-01	IDLER ARM	
165	4-894-964-01	F GEAR	
166	X-3391-004-1	T REEL ASSY	
* 167	3-390-838-01	SHAFT (W), BUTTON	
168	4-894-958-01	INTERLOCK ARM	
169	3-390-805-01	PINCH ARM ASSY	
170	4-894-966-01	SPRING	
171	4-894-968-01	CHASSIS ASSY	
172	4-894-967-01	SPRING	
HE901	1-543-558-11	ERASE HEAD	
HRP901	1-543-424-21	REC/PB HEAD	

7-5. MECHANISM DECK SECTION-2 (CFD-20)

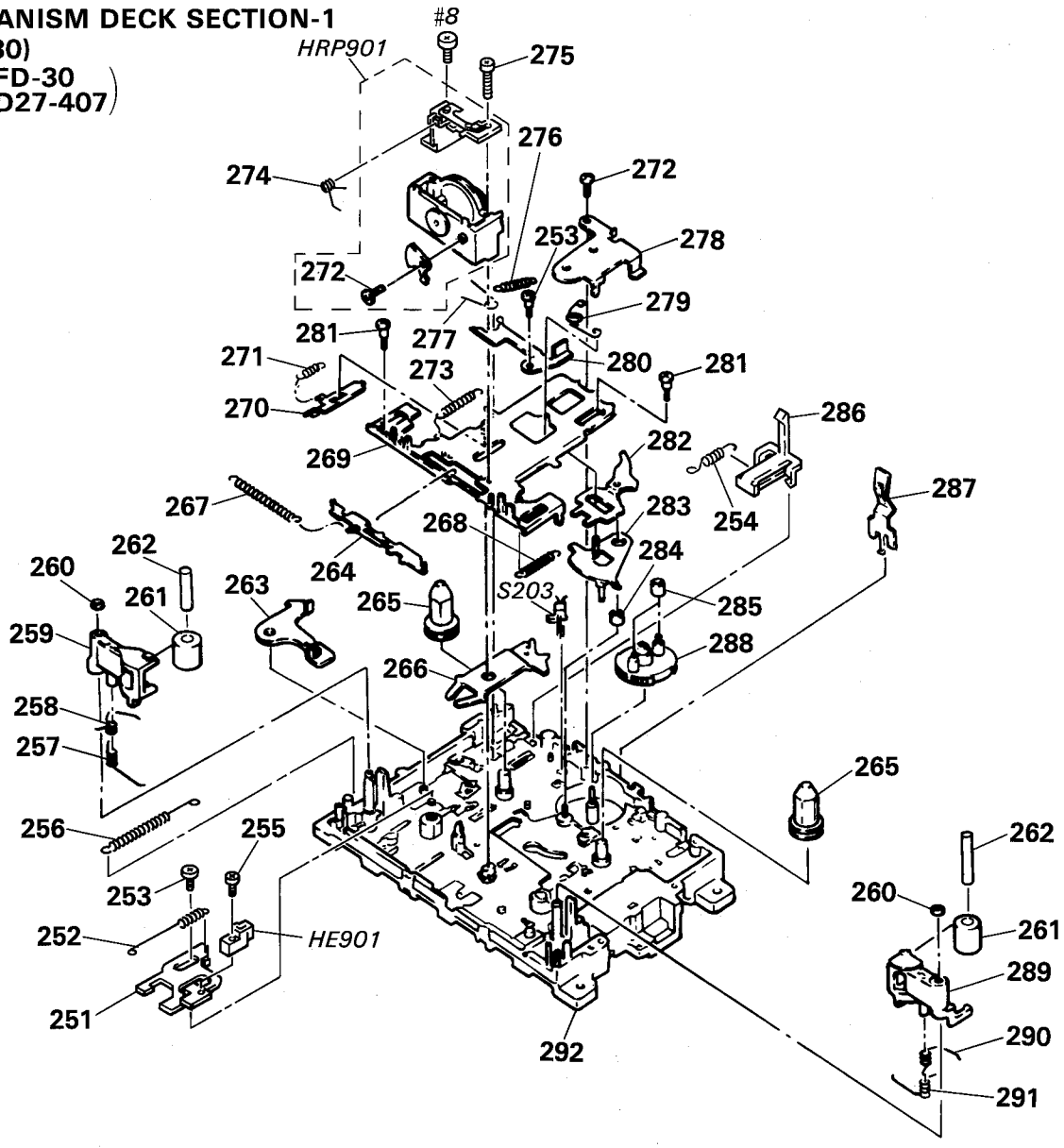
(MF-CFD-20
: YM27X-407)



Ref. No.	Part No.	Description	Remark
201	4-894-969-01	N WASHER	
202	4-894-999-01	SPRING	
203	4-894-980-01	EJECT ARM	
204	4-894-989-01	SPRING	
* 205	4-894-986-01	PAUSE LEVER	
* 206	4-894-987-01	S.E LEVER	
* 207	3-391-052-01	FF LEVER	
* 208	3-391-051-01	REW LEVER	
* 209	3-391-053-01	PLAY LEVER	
210	4-894-994-01	REC LEVER	
211	3-390-811-01	LEVER, REC STOP	
212	3-390-827-01	SPRING	
* 213	4-894-984-01	FUNCTION LEVER	
214	4-894-983-01	C SPRING	
215	X-3391-003-1	POWER ARM ASSY	

Ref. No.	Part No.	Description	Remark
216	4-894-982-01	S ARM	
217	3-390-809-01	SPRING	
218	4-894-985-01	PAUSE ARM	
* 219	3-391-071-01	PLATE, MOTOR	
* 220	4-894-977-01	BACK PLATE	
221	3-391-047-01	EARTH LUG	
222	X-3391-002-1	FLYWHEEL ASSY	
223	3-395-914-01	BELT, SQUARE	
224	3-561-892-00	BELT, SQUARE	
225	4-894-978-01	SPRING	
226	3-369-935-01	SPRING, REC	
227	3-390-822-01	BUSHING (C)	
228	4-894-976-01	P WASHER	
M901	3-379-148-01	MOTOR ASSY (REEL/CAPSTAN)	
S201	1-572-394-11	SWITCH, LEAF (MAIN)	

7-6. MECHANISM DECK SECTION-1 (CFD-30) (MF-CFD-30 :LRD27-407)

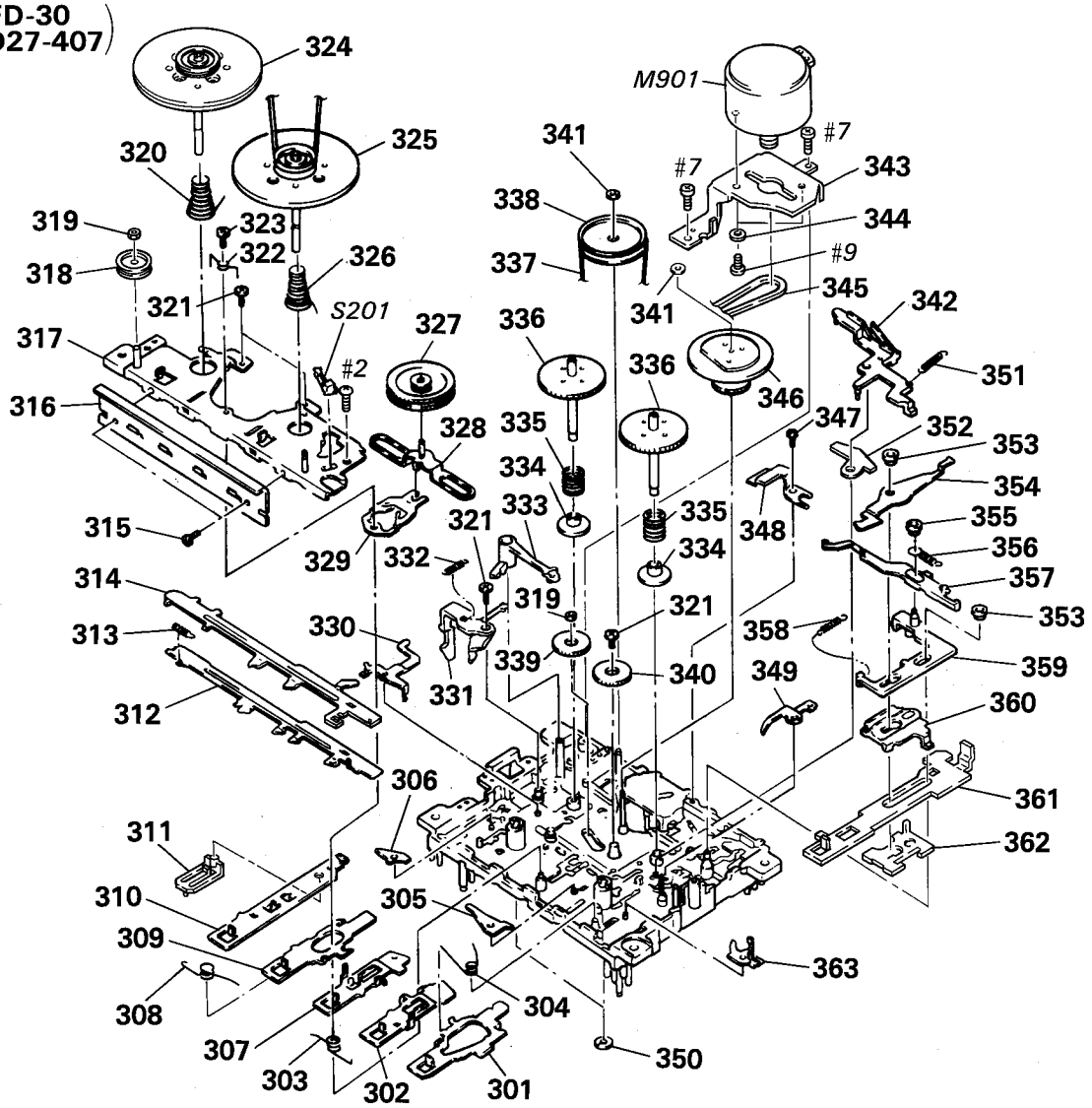


Ref. No.	Part No.	Description	Remark
* 251	3-379-191-01	HOLDER ERASE	
252	3-379-193-01	SPRING	
253	3-396-808-01	SCREW	
254	3-382-201-01	SPRING	
255	3-379-190-01	SCREW	
256	3-379-196-01	SPRING	
257	3-393-152-01	SPRING	
258	3-393-153-01	SPRING	
259	3-393-112-01	ARM PINCH-L	
260	3-393-227-01	WASHER	
261	3-393-149-01	ROLLER PINCH	
262	3-393-113-01	SHAFT	
* 263	3-369-951-01	PLATE, PROTECT REC	
* 264	3-369-937-01	PLATE ASSY, SLIDE	
265	3-391-086-01	CAP RELL	
* 266	3-391-090-01	PLATE REVERSE-C	
267	3-393-106-01	SPRING	
268	3-391-095-01	SPRING	
269	X-3391-009-1	ASSY HEAD CHASSIS	
* 270	3-369-941-01	LEVER, GEAR STOP	
271	3-369-942-01	SPRING	
272	4-894-960-01	BUSH	
273	3-391-096-01	SPRING	

Ref. No.	Part No.	Description	Remark
274	3-393-105-01	SPRING	
275	3-393-218-01	SCREW	
276	3-391-093-01	SPRING	
277	3-391-094-01	SPRING	
278	3-393-109-01	HOLDER GEAR	
279	3-363-223-01	SPRING	
* 280	3-391-092-01	PLATE MO JOINT	
281	3-393-221-01	SCREW	
* 282	3-391-091-01	PLATE REVERSE-D	
283	X-3391-008-1	ASSY IDLER PLATE	
284	3-369-952-01	COLLAR	
285	3-391-089-01	COLLER B	
286	4-894-958-01	INTERLOCK ARM	
287	3-393-209-01	PLATE SPRING	
288	X-3391-007-1	ASSY REVERSE GEAR C	
289	3-393-111-01	ARM PINCH-R	
290	3-393-151-01	SPRING	
291	3-393-150-01	SPRING	
* 292	X-3365-057-1	ASSY MECHA CHASSIS	
HE901	3-379-192-01	ERASE HEAD ASSY	
HRP901	X-3365-055-1	REC/PB HEAD ASSY	
S203	1-571-745-11	SWITCH, LEAF (FWD/RVS)	

7-7. MECHANISM DECK SECTION-2 (CFD-30)

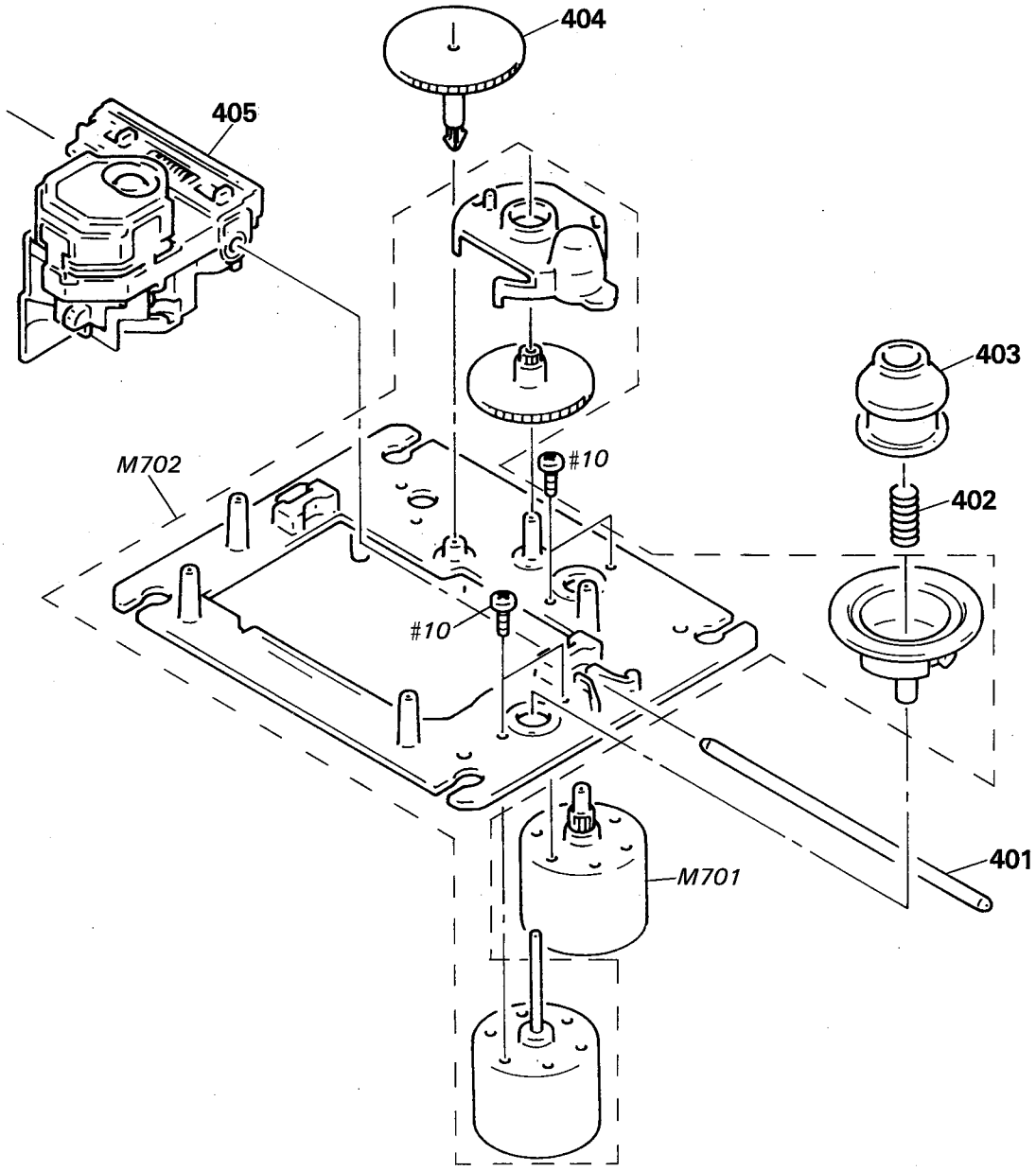
(MF-CFD-30 :LRD27-407)



Ref.No.	Part No.	Description	Remark
* 301	3-393-171-01	LEVER PLAY B	
* 302	3-369-944-01	LEVER, REW	
303	3-393-165-01	SPRING	
304	3-393-167-01	SPRING	
305	3-393-170-01	ARM CUE STOP	
306	3-393-158-01	ARM PAUSE	
* 307	3-369-943-01	LEVER, FF	
308	3-393-159-01	SPRING	
309	3-393-160-01	LEVER STOP	
310	3-393-156-01	LEVER PAUSE	
311	3-393-157-01	ARM PAUSE STOP	
* 312	3-369-945-01	PLATE, FUNCTION (A)	
313	3-393-175-01	SPRING	
* 314	3-379-176-01	PLATE FUNCTION-B	
315	3-396-801-01	SCREW	
* 316	3-396-800-01	HOLDER	
* 317	X-3391-013-1	ASSY LEVER HOLDER C	
* 318	3-369-948-01	PULLEY	
319	3-393-225-01	WASHER	
320	3-393-206-01	SPRING	
321	4-894-960-01	BUSH	
322	3-382-202-01	SPRING	
323	3-393-221-01	SCREW	
324	X-3365-056-1	ASSY FLYWHEEL F	
325	X-3391-018-1	ASSY FLYWHEEL R	
326	3-393-205-01	SPRING	
327	X-3391-016-1	ASSY FF TENTION A	
328	X-3391-012-1	ASSY FF IDLER PLATE	
329	3-393-176-01	LEVER FF IDLER	
330	3-393-155-01	PLATE SENSER STOP	
331	3-396-773-01	LEVER EJECT	
332	3-393-179-01	SPRING	
333	3-393-190-01	ARM SENSER STOP	

Ref.No.	Part No.	Description	Remark
334	3-391-088-01	REEL BUSH-D	
335	3-391-087-01	SPRING	
336	3-391-085-01	GEAR RELL	
337	3-681-447-00	BELT	
338	3-393-191-01	PULLY DRIVE	
339	3-393-154-01	GEAR IDLER	
340	3-391-084-01	GEAR FWD	
341	3-393-226-01	WASHER	
* 342	3-393-182-01	LEVER DR	
* 343	3-379-180-01	HOLDER MOTOR	
344	3-379-181-01	WASHER NYLON	
345	3-379-150-01	BELT	
346	X-3391-015-1	TENTION ASSY	
347	3-396-791-01	SCREW	
348	3-396-790-01	PLATE SPRING DR	
349	3-393-169-01	PLATE SWITCH-C	
350	4-894-969-01	N WASHER	
351	3-393-177-01	SPRING	
* 352	3-379-195-01	ARM REC	
353	3-393-189-01	BUSH	
* 354	3-379-179-01	LEVER CANCEL	
355	3-379-197-01	BUSH	
356	3-379-178-01	SPRING	
* 357	3-393-185-01	LEVER SENSER-B	
358	3-393-187-01	SPRING	
* 359	3-393-184-01	LEVER SENSER	
* 360	3-393-181-01	LEVER MO	
* 361	3-379-194-01	LEVER REC	
* 362	3-393-180-01	PLATE MO	
363	3-393-168-01	PLATE SWITCH-A	
M901	3-379-149-01	MOTOR ASSY (REEL/CAPSTAN)	
S201	1-571-556-11	SWITCH, LEAF (MAIN)	

7-8. OPTICAL PICKUP BLOCK (KSM-2101BAM)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifé.

Ref. No.	Part No.	Description	Remark
401	4-917-565-01	SHAFT (K), SLED	
402	2-625-191-01	SPRING (K), COMPRESSION	
403	2-625-186-01	RING (C) (K), CENTER	
404	2-625-188-02	GEAR (A) (K)	
⚠405	8-848-137-11	PICKUP, OPTICAL KSS-210B	
M701	X-2625-132-1	MOTOR GEAR ASSY (MB) (SLED)	
M702	X-2625-133-2	MOTOR ASSY, SPINDLE(TT CHASSIS ASSY(MB))	

SECTION 8
ELECTRICAL PARTS LIST

AUDIO

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA ..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH
- E=E94 : Taiwan

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description			Remark
*	A-3275-525-A	AUDIO BOARD, COMPLETE (CFD-20)			
*	A-3275-524-A	AUDIO BOARD, COMPLETE (CFD-30)			
		**********			
		< CAPACITOR >			
C101	1-124-126-00	ELECT	47uF	20%	10V
C102	1-162-291-31	CERAMIC	560PF	10%	50V
C103	1-130-488-00	MYLAR	0.027uF	5%	50V
C104	1-162-291-31	CERAMIC	560PF	10%	50V
C105	1-130-473-00	MYLAR	0.0015uF	5%	50V
C106	1-124-925-11	ELECT	2.2uF	20%	100V
C107	1-124-903-11	ELECT	1uF	20%	50V
C108	1-162-292-31	CERAMIC	680PF	10%	50V
C109	1-130-486-00	MYLAR	0.018uF	10%	50V
C110	1-162-215-31	CERAMIC	47PF	5%	50V
C114	1-162-282-31	CERAMIC	100PF	10%	50V
C117	1-162-292-31	CERAMIC	680PF	10%	50V
C121	1-162-282-31	CERAMIC	100PF	10%	50V
C122	1-124-903-11	ELECT	1uF	20%	50V
C123	1-124-903-11	ELECT	1uF	20%	50V
C124	1-162-282-31	CERAMIC	100PF	10%	50V
C125	1-124-903-11	ELECT	1uF	20%	50V
C126	1-124-903-11	ELECT	1uF	20%	50V
C139	1-162-286-31	CERAMIC	220PF	10%	50V
C201	1-162-282-31	CERAMIC	100PF	10%	50V
C202	1-124-903-11	ELECT	1uF	20%	50V
C203	1-126-157-11	ELECT	10uF	20%	16V
C205	1-124-927-11	ELECT	4.7uF	20%	100V
C206	1-124-907-11	ELECT	10uF	20%	50V
C207	1-124-907-11	ELECT	10uF	20%	50V
C208	1-124-443-00	ELECT	100uF	20%	10V
C209	1-124-126-00	ELECT	47uF	20%	10V
C210	1-161-377-00	CERAMIC	0.0047uF	30%	16V
C211	1-130-487-00	MYLAR	0.022uF	5%	50V
C212	1-130-471-00	MYLAR	0.001uF	5%	50V
C213	1-124-443-00	ELECT	100uF	20%	10V
C214	1-162-286-31	CERAMIC	220PF	10%	50V
C215	1-162-290-31	CERAMIC	470PF	10%	50V
C216	1-130-471-00	MYLAR	0.001uF	5%	50V
C217	1-126-233-11	ELECT	22uF	20%	50V
C219	1-124-443-00	ELECT	100uF	20%	10V
C220	1-123-382-00	ELECT	3.3uF	20%	100V
C221	1-126-233-11	ELECT	22uF	20%	50V
C222	1-126-233-11	ELECT	22uF	20%	50V
C226	1-124-907-11	ELECT	10uF	20%	50V
C230	1-124-443-00	ELECT	100uF	20%	10V
C247	1-126-157-11	ELECT	10uF	20%	16V
C255	1-161-379-00	CERAMIC	0.01uF	20%	25V
C301	1-124-126-00	ELECT	47uF	20%	10V
C302	1-162-291-31	CERAMIC	560PF	10%	50V
C303	1-130-488-00	MYLAR	0.027uF	5%	50V
C304	1-162-291-31	CERAMIC	560PF	10%	50V
C305	1-130-473-00	MYLAR	0.0015uF	5%	50V
C306	1-124-925-11	ELECT	2.2uF	20%	100V
C307	1-124-903-11	ELECT	1uF	20%	50V
C308	1-162-292-31	CERAMIC	680PF	10%	50V
C309	1-130-486-00	MYLAR	0.018uF	10%	50V
C310	1-162-215-31	CERAMIC	47PF	5%	50V
C314	1-162-282-31	CERAMIC	100PF	10%	50V
C317	1-162-292-31	CERAMIC	680PF	10%	50V
C321	1-162-282-31	CERAMIC	100PF	10%	50V
C322	1-124-903-11	ELECT	1uF	20%	50V
C323	1-124-903-11	ELECT	1uF	20%	50V
C324	1-162-282-31	CERAMIC	100PF	10%	50V
C325	1-124-903-11	ELECT	1uF	20%	50V
C326	1-124-903-11	ELECT	1uF	20%	50V
C339	1-162-286-31	CERAMIC	220PF	10%	50V

AUDIO

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
* CN101	1-580-047-11	CONNECTOR 3P	
* CN102	1-580-048-11	CONNECTOR 4P (CFD-20)	
* CN102	1-573-597-11	CONNECTOR 3P (CFD-30)	
* CN103	1-695-145-11	CONNECTOR 5P	
* CN104	1-695-144-11	CONNECTOR 13P	
* CN106	1-695-055-11	HOUSING, CONNECTOR 6P	
* CN107	1-695-055-11	HOUSING, CONNECTOR 6P	
* CN109	1-695-146-11	CONNECTOR 3P	
* CN110	1-580-048-11	CONNECTOR 4P (CFD-20)	
* CN110	1-695-139-11	CONNECTOR 6P (CFD-30)	
		< DIODE >	
D205	8-719-200-02	DIODE 10E-2	
D206	8-719-107-94	DIODE 1SS202-1	
D207	8-719-107-94	DIODE 1SS202-1	
D208	8-719-107-94	DIODE 1SS202-1	
		< IC >	
IC201	8-759-231-22	IC TA7417AP	
IC202	8-759-106-41	IC uPC4570C	
IC203	8-759-076-52	IC GL4558	
		< JACK >	
J203	1-563-330-11	JACK (MIX MIC)	
		< COIL >	
L201	1-408-557-11	INDUCTOR 3.3uH	
L202	1-408-569-11	INDUCTOR 3.3uH	
		< TRANSISTOR >	
Q101	8-729-016-64	TRANSISTOR KTD1302	
Q202	8-729-900-80	TRANSISTOR DTC114ES	
Q203	8-729-900-61	TRANSISTOR DTA114ES	
Q204	8-729-900-80	TRANSISTOR DTC114ES	
Q205	8-729-900-80	TRANSISTOR DTC114ES	
Q206	8-729-900-80	TRANSISTOR DTC114ES	
Q207	8-729-900-61	TRANSISTOR DTA114ES	
Q208	8-729-900-80	TRANSISTOR DTC114ES	
Q209	8-729-231-83	TRANSISTOR 2SC1959	
Q301	8-729-016-64	TRANSISTOR KTD1302	
		< RESISTOR >	
R101	1-249-406-11	CARBON 120 5%	1/4W
R102	1-249-426-11	CARBON 5.6K 5%	1/4W
R103	1-249-440-11	CARBON 82K 5%	1/4W
R104	1-249-432-11	CARBON 18K 5%	1/4W
R105	1-249-427-11	CARBON 6.8K 5%	1/4W
R106	1-249-434-11	CARBON 27K 5%	1/4W
R108	1-249-441-11	CARBON 100K 5%	1/4W
R109	1-249-429-11	CARBON 10K 5%	1/4W
R110	1-249-434-11	CARBON 27K 5%	1/4W
R112	1-249-429-11	CARBON 10K 5%	1/4W
R113	1-249-414-11	CARBON 560 5%	1/4W
R120	1-249-421-11	CARBON 2.2K 5%	1/4W
R121	1-249-436-11	CARBON 39K 5%	1/4W
R122	1-249-426-11	CARBON 5.6K 5%	1/4W
R123	1-249-425-11	CARBON 4.7K 5%	1/4W
R124	1-249-435-11	CARBON 33K 5%	1/4W
R125	1-249-437-11	CARBON 47K 5%	1/4W
R126	1-249-419-11	CARBON 1.5K 5%	1/4W
R127	1-249-425-11	CARBON 4.7K 5%	1/4W
R201	1-249-437-11	CARBON 47K 5%	1/4W
R202	1-249-437-11	CARBON 47K 5%	1/4W
R212	1-249-422-11	CARBON 2.7K 5%	1/4W
R214	1-249-429-11	CARBON 10K 5%	1/4W
R215	1-249-425-11	CARBON 4.7K 5%	1/4W
R216	1-249-432-11	CARBON 18K 5%	1/4W
R217	1-259-880-11	CARBON 2.2M 5%	1/6W
R218	1-249-429-11	CARBON 10K 5%	1/4W
R219	1-249-407-11	CARBON 150 5%	1/4W
R220	1-249-393-11	CARBON 10 5%	1/4W
R221	1-249-429-11	CARBON 10K 5%	1/4W
R222	1-249-411-11	CARBON 330 5%	1/4W
R223	1-249-425-11	CARBON 4.7K 5%	1/4W
R225	1-249-417-11	CARBON 1K 5%	1/4W
R247	1-249-437-11	CARBON 47K 5%	1/4W
R248	1-249-437-11	CARBON 47K 5%	1/4W
R301	1-249-406-11	CARBON 120 5%	1/4W
R302	1-249-426-11	CARBON 5.6K 5%	1/4W
R303	1-249-440-11	CARBON 82K 5%	1/4W
R304	1-249-432-11	CARBON 18K 5%	1/4W
R305	1-249-427-11	CARBON 6.8K 5%	1/4W
R306	1-249-434-11	CARBON 27K 5%	1/4W
R308	1-249-441-11	CARBON 100K 5%	1/4W
R309	1-249-429-11	CARBON 10K 5%	1/4W
R310	1-249-434-11	CARBON 27K 5%	1/4W
R312	1-249-429-11	CARBON 10K 5%	1/4W
R313	1-249-414-11	CARBON 560 5%	1/4W
R320	1-249-421-11	CARBON 2.2K 5%	1/4W
R321	1-249-436-11	CARBON 39K 5%	1/4W
R322	1-249-426-11	CARBON 5.6K 5%	1/4W
R323	1-249-425-11	CARBON 4.7K 5%	1/4W
R324	1-249-435-11	CARBON 33K 5%	1/4W
R325	1-249-437-11	CARBON 47K 5%	1/4W
R326	1-249-419-11	CARBON 1.5K 5%	1/4W
R327	1-249-425-11	CARBON 4.7K 5%	1/4W

AUDIO | BATTERY | CD CONTROL | CD LEAF | CD MAIN

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV201	1-241-927-11	RES, VAR, CARBON 50K/50K (VOLUME)	
RV202	1-241-928-11	RES, VAR, CARBON 50K/50K (TONE)	
		< SWITCH >	
S101	1-692-173-11	SWITCH, LEVER (FUNCTION)	
S103	1-692-170-11	SWITCH, SLIDE (ISS/FM MODE)	
		< TRANSFORMER >	
T101	1-433-399-11	COIL, BIAS OSCILLATION	
**********			
	1-644-027-11	BATTERY BOARD	
		**********	
	3-380-067-01	SPRING, BATT (-)	
		< CONNECTOR >	
* CN910	1-695-151-11	CONNECTOR 2P	
**********			
*	1-644-032-11	CD CONTROL BOARD	
		**********	
		< CONNECTOR >	
* CN807	1-695-058-11	CONNECTOR 29P	
		< DIODE >	
D801	8-719-918-76	LED GL-3PR9 (REV) (CFD-30)	
D802	8-719-918-76	LED GL-3PR9 (FWD)	
D803	8-719-107-94	DIODE 1SS202-1 (CFD-30)	
		< LIQUID CRYSTAL DISPLAY >	
LCD1	1-808-930-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< RESISTOR >	
R801	1-249-416-11	CARBON 820 5% 1/4W (CFD-30)	
R802	1-249-416-11	CARBON 820 5% 1/4W	
R803	1-249-410-11	CARBON 270 5% 1/4W	
R804	1-249-410-11	CARBON 270 5% 1/4W (CFD-30)	
		< SWITCH >	
S801	1-692-178-11	SWITCH, TACT (PLAY)	
S802	1-692-178-11	SWITCH, TACT (STOP)	
S803	1-692-178-11	SWITCH, TACT (REW)	
S804	1-692-178-11	SWITCH, TACT (FF)	
S805	1-692-178-11	SWITCH, TACT (PAUSE)	
S806	1-692-178-11	SWITCH, TACT (PLAY MODE)	
S807	1-692-178-11	SWITCH, TACT (REMAIN/ENTER)	
**********			
	1-644-031-11	CD LEAF SW BOARD	
		**********	
		< CONNECTOR >	
CN804	1-695-143-11	CONNECTOR 2P	
		< SWITCH >	
S801	1-692-171-11	SWITCH (DOOR)	
**********			
*	A-3275-519-A	CD MAIN BOARD, COMPLETE	
		**********	
		< CAPACITOR >	

C700	1-162-197-31	CERAMIC	6.8PF	10%	50V
C701	1-161-375-00	CERAMIC	0.0022uF	20%	50V
C702	1-124-034-51	ELECT	33uF	20%	16V
C703	1-124-443-00	ELECT	100uF	20%	10V
C704	1-161-379-00	CERAMIC	0.01uF	20%	25V
C705	1-130-489-00	MYLAR	0.033uF	5%	50V
C706	1-124-443-00	ELECT	100uF	20%	10V
C707	1-161-379-00	CERAMIC	0.01uF	20%	25V
C708	1-161-379-00	CERAMIC	0.01uF	20%	25V
C709	1-130-489-00	MYLAR	0.033uF	5%	50V
C710	1-161-377-00	CERAMIC	0.0047uF	30%	16V
C711	1-161-379-00	CERAMIC	0.01uF	20%	25V
C712	1-161-375-00	CERAMIC	0.0022uF	20%	50V
C713	1-130-491-00	MYLAR	0.047uF	5%	50V
C714	1-161-379-00	CERAMIC	0.01uF	20%	25V
C715	1-161-329-00	CERAMIC	0.0068uF	30%	16V
C716	1-162-294-31	CERAMIC	0.001uF	10%	50V
C717	1-126-157-11	ELECT	10uF	20%	16V
C718	1-130-493-00	MYLAR	0.068uF	5%	50V
C719	1-162-284-31	CERAMIC	150PF	10%	50V
C720	1-162-215-31	CERAMIC	47PF	5%	50V
C722	1-124-034-51	ELECT	33uF	20%	16V
C723	1-130-495-00	MYLAR	0.1uF	5%	50V
C724	1-124-034-51	ELECT	33uF	20%	16V
C725	1-126-157-11	ELECT	10uF	20%	16V
C726	1-130-495-00	MYLAR	0.1uF	5%	50V
C727	1-130-495-00	MYLAR	0.1uF	5%	50V
C728	1-124-034-51	ELECT	33uF	20%	16V
C729	1-161-379-00	CERAMIC	0.01uF	20%	25V
C730	1-162-294-31	CERAMIC	0.001uF	10%	50V

CD MAIN

Ref. No.	Part No.	Description			Remark
C731	1-161-379-00	CERAMIC	0.01uF	20%	25V
C732	1-161-379-00	CERAMIC	0.01uF	20%	25V
C733	1-124-034-51	ELECT	33uF	20%	16V
C734	1-124-034-51	ELECT	33uF	20%	16V
C735	1-124-902-00	ELECT	0.47uF	20%	50V
C736	1-124-034-51	ELECT	33uF	20%	16V
C737	1-130-489-00	MYLAR	0.033uF	5%	50V
C738	1-124-927-11	ELECT	4.7uF	20%	100V
C739	1-124-903-11	ELECT	1uF	20%	50V
C740	1-161-379-00	CERAMIC	0.01uF	20%	25V
C741	1-161-379-00	CERAMIC	0.01uF	20%	25V
C742	1-124-902-00	ELECT	0.47uF	20%	50V
C743	1-161-379-00	CERAMIC	0.01uF	20%	25V
C744	1-124-472-11	ELECT	470uF	20%	10V
C745	1-162-207-31	CERAMIC	22PF	5%	50V
C746	1-162-207-31	CERAMIC	22PF	5%	50V
C747	1-126-176-11	ELECT	220uF	20%	10V
C748	1-161-379-00	CERAMIC	0.01uF	20%	25V
C749	1-162-219-31	CERAMIC	68PF	5%	50V
C750	1-162-219-31	CERAMIC	68PF	5%	50V
C751	1-162-294-31	CERAMIC	0.001uF	10%	50V
C752	1-124-443-00	ELECT	100uF	20%	10V
C753	1-162-199-31	CERAMIC	10PF	5%	50V
C754	1-162-199-31	CERAMIC	10PF	5%	50V
C755	1-124-903-11	ELECT	1uF	20%	50V
C756	1-124-360-00	ELECT	1000uF	20%	16V
C757	1-162-292-31	CERAMIC	680PF	10%	50V
C758	1-162-215-31	CERAMIC	47PF	5%	50V
C759	1-162-215-31	CERAMIC	47PF	5%	50V
C760	1-124-443-00	ELECT	100uF	20%	10V
C762	1-162-294-31	CERAMIC	0.001uF	10%	50V
C763	1-161-379-00	CERAMIC	0.01uF	20%	25V
C764	1-124-443-00	ELECT	100uF	20%	10V
C765	1-162-282-31	CERAMIC	100PF	10%	50V
C766	1-162-282-31	CERAMIC	100PF	10%	50V
C767	1-161-379-00	CERAMIC	0.01uF	20%	25V
C768	1-161-379-00	CERAMIC	0.01uF	20%	25V
C769	1-161-379-00	CERAMIC	0.01uF	20%	25V
C770	1-161-379-00	CERAMIC	0.01uF	20%	25V
C771	1-124-903-11	ELECT	1uF	20%	50V
C772	1-124-903-11	ELECT	1uF	20%	50V
C773	1-161-375-00	CERAMIC	0.0022uF	20%	50V
C774	1-161-375-00	CERAMIC	0.0022uF	20%	50V
C775	1-162-294-31	CERAMIC	0.001uF	10%	50V
C776	1-162-294-31	CERAMIC	0.001uF	10%	50V
C777	1-162-215-31	CERAMIC	47PF	5%	50V
C778	1-162-215-31	CERAMIC	47PF	5%	50V
C779	1-124-443-00	ELECT	100uF	20%	10V
C780	1-124-903-11	ELECT	1uF	20%	50V

Ref. No.	Part No.	Description			Remark
C781	1-124-903-11	ELECT	1uF	20%	50V
C782	1-124-443-00	ELECT	100uF	20%	10V
C783	1-126-157-11	ELECT	10uF	20%	16V
C784	1-126-157-11	ELECT	10uF	20%	16V
C785	1-130-493-00	MYLAR	0.068uF	5%	50V
C786	1-130-493-00	MYLAR	0.068uF	5%	50V
C787	1-124-903-11	ELECT	1uF	20%	50V

< CONNECTOR >

* CN701	1-695-138-11	CONNECTOR 8P	
* CN702	1-695-137-11	CONNECTOR 8P	
* CN703	1-695-152-11	CONNECTOR 6P	
* CN704	1-580-046-11	CONNECTOR 2P	
* CN705	1-695-056-11	PLUG, CONNECTOR 6P	
* CN706	1-695-056-11	PLUG, CONNECTOR 6P	
* CN707	1-695-058-11	CONNECTOR 29P	

< DIODE >

D701	8-719-107-94	DIODE	1SS202-1
D702	8-719-107-94	DIODE	1SS202-1
D703	8-719-107-94	DIODE	1SS202-1
D704	8-719-107-94	DIODE	1SS202-1
D705	8-719-107-94	DIODE	1SS202-1
D706	8-719-107-94	DIODE	1SS202-1
D707	8-719-107-94	DIODE	1SS202-1
D708	8-719-107-94	DIODE	1SS202-1

< IC >

IC701	8-752-055-04	IC	CXA1081S
IC702	8-752-032-33	IC	CXA1182S
IC703	8-752-328-46	IC	CXD1130Q
IC704	8-759-076-43	IC	GM76C28
IC705	8-752-819-88	IC	CXP5084-624Q
IC706	8-759-501-65	IC	BA6294
IC707	8-759-501-65	IC	BA6294
IC708	8-759-148-89	IC	uPD6376CX
IC709	8-759-076-52	IC	GL4558
IC710	8-759-076-44	IC	KIA7039P
IC712	8-759-076-52	IC	GL4558

< TRANSISTOR >

Q701	8-729-201-53	TRANSISTOR	2SA1015-GR
Q702	8-729-206-21	TRANSISTOR	RN1003
Q703	8-729-206-21	TRANSISTOR	RN1003
Q704	8-729-281-53	TRANSISTOR	2SC1815-GR
Q705	8-729-206-28	TRANSISTOR	RN1210
Q706	8-729-900-63	TRANSISTOR	DTA124ES
Q708	8-729-201-53	TRANSISTOR	2SA1015-GR

Ref. No.	Part No.	Description			Remark
Q751	8-729-206-28	TRANSISTOR	RN1210		
Q752	8-729-206-28	TRANSISTOR	RN1210		
Q753	8-729-206-28	TRANSISTOR	RN1210		
Q754	8-729-206-28	TRANSISTOR	RN1210		
Q755	8-729-900-63	TRANSISTOR	DTA124ES		
Q756	8-729-281-53	TRANSISTOR	2SC1815-GR		
Q757	8-729-900-63	TRANSISTOR	DTA124ES		
Q758	8-729-206-28	TRANSISTOR	RN1210		
		< RESISTOR >			
R701	1-249-433-11	CARBON	22K	5%	1/4W
R702	1-249-417-11	CARBON	1K	5%	1/4W
R703	1-249-433-11	CARBON	22K	5%	1/4W
R704	1-249-417-11	CARBON	1K	5%	1/4W
R706	1-249-417-11	CARBON	1K	5%	1/4W
R707	1-247-883-00	CARBON	150K	5%	1/4W
R708	1-249-429-11	CARBON	10K	5%	1/4W
R709	1-249-441-11	CARBON	100K	5%	1/4W
R710	1-249-437-11	CARBON	47K	5%	1/4W
R711	1-249-438-11	CARBON	56K	5%	1/4W
R712	1-247-885-00	CARBON	180K	5%	1/4W
R713	1-249-441-11	CARBON	100K	5%	1/4W
R715	1-249-429-11	CARBON	10K	5%	1/4W
R716	1-249-441-11	CARBON	100K	5%	1/4W
R717	1-247-895-00	CARBON	470K	5%	1/4W
R718	1-249-437-11	CARBON	47K	5%	1/4W
R719	1-247-886-11	CARBON	200K	5%	1/4W
R720	1-249-422-11	CARBON	2.7K	5%	1/4W
R721	1-249-428-11	CARBON	8.2K	5%	1/4W
R722	1-247-903-00	CARBON	1M	5%	1/4W
R723	1-249-421-11	CARBON	2.2K	5%	1/4W
R724	1-249-417-11	CARBON	1K	5%	1/4W
R725	1-249-425-11	CARBON	4.7K	5%	1/4W
R726	1-249-435-11	CARBON	33K	5%	1/4W
R727	1-249-437-11	CARBON	47K	5%	1/4W
R728	1-249-429-11	CARBON	10K	5%	1/4W
R729	1-249-441-11	CARBON	100K	5%	1/4W
R730	1-249-425-11	CARBON	4.7K	5%	1/4W
R731	1-249-435-11	CARBON	33K	5%	1/4W
R732	1-249-429-11	CARBON	10K	5%	1/4W
R733	1-249-441-11	CARBON	100K	5%	1/4W
R734	1-249-405-11	CARBON	100	5%	1/4W
R735	1-249-437-11	CARBON	47K	5%	1/4W
R736	1-249-437-11	CARBON	47K	5%	1/4W
R737	1-249-417-11	CARBON	1K	5%	1/4W
R738	1-249-437-11	CARBON	47K	5%	1/4W
R739	1-249-405-11	CARBON	100	5%	1/4W
R740	1-249-441-11	CARBON	100K	5%	1/4W
R741	1-249-405-11	CARBON	100	5%	1/4W

Ref. No.	Part No.	Description			Remark
R742	1-249-441-11	CARBON	100K	5%	1/4W
R743	1-249-441-11	CARBON	100K	5%	1/4W
R744	1-249-435-11	CARBON	33K	5%	1/4W
R745	1-249-435-11	CARBON	33K	5%	1/4W
R746	1-249-435-11	CARBON	33K	5%	1/4W
R747	1-249-410-11	CARBON	270	5%	1/4W
R748	1-249-429-11	CARBON	10K	5%	1/4W
R751	1-247-806-11	CARBON	91	5%	1/4W
R752	1-249-397-11	CARBON	22	5%	1/4W
R753	1-249-405-11	CARBON	100	5%	1/4W
R754	1-249-435-11	CARBON	33K	5%	1/4W
R755	1-247-876-11	CARBON	75K	5%	1/4W
R756	1-215-457-00	METAL	33K	1%	1/6W
R757	1-215-453-00	METAL	22K	1%	1/6W
R758	1-215-457-00	METAL	33K	1%	1/6W
R759	1-215-453-00	METAL	22K	1%	1/6W
R760	1-249-417-11	CARBON	1K	5%	1/4W
R761	1-247-893-11	CARBON	390K	5%	1/4W
R762	1-215-453-00	METAL	22K	1%	1/6W
R763	1-215-457-00	METAL	33K	1%	1/6W
R764	1-215-453-00	METAL	22K	1%	1/6W
R765	1-249-436-11	CARBON	39K	5%	1/4W
R766	1-215-457-00	METAL	33K	1%	1/6W
R767	1-249-435-11	CARBON	33K	5%	1/4W
R768	1-215-429-00	METAL	2.2K	1%	1/6W
R769	1-215-433-00	METAL	3.3K	1%	1/6W
R770	1-247-895-00	CARBON	470K	5%	1/4W
R771	1-249-441-11	CARBON	100K	5%	1/4W
R772	1-249-441-11	CARBON	100K	5%	1/4W
R773	1-249-395-11	CARBON	15	5%	1/4W
R774	1-249-425-11	CARBON	4.7K	5%	1/4W
R775	1-249-425-11	CARBON	4.7K	5%	1/4W
R776	1-249-437-11	CARBON	47K	5%	1/4W
R777	1-249-437-11	CARBON	47K	5%	1/4W
R778	1-249-437-11	CARBON	47K	5%	1/4W
R779	1-249-437-11	CARBON	47K	5%	1/4W
R780	1-249-433-11	CARBON	22K	5%	1/4W
R781	1-249-433-11	CARBON	22K	5%	1/4W
R782	1-249-427-11	CARBON	6.8K	5%	1/4W
R783	1-249-429-11	CARBON	10K	5%	1/4W
R784	1-247-887-00	CARBON	220K	5%	1/4W
R785	1-247-887-00	CARBON	220K	5%	1/4W
R786	1-249-395-11	CARBON	15	5%	1/4W
R787	1-249-414-11	CARBON	560	5%	1/4W
R788	1-249-414-11	CARBON	560	5%	1/4W
R789	1-249-409-11	CARBON	220	5%	1/4W
R790	1-249-409-11	CARBON	220	5%	1/4W
R791	1-249-435-11	CARBON	33K	5%	1/4W
R792	1-249-435-11	CARBON	33K	5%	1/4W

CD MAIN POWER

Ref. No.	Part No.	Description			Remark
R793	1-249-433-11	CARBON	22K	5%	1/4W
R794	1-247-895-00	CARBON	470K	5%	1/4W
		< VARIABLE RESISTOR >			
RV701	1-241-931-11	RES, ADJ, CARBON 22K			
RV702	1-241-931-11	RES, ADJ, CARBON 22K			
RV703	1-241-931-11	RES, ADJ, CARBON 22K			
RV704	1-241-933-11	RES, ADJ, CARBON 2.2K			
RV705	1-241-931-11	RES, ADJ, CARBON 22K			
		< VIBRATOR >			
X701	1-579-633-11	OSCILLATOR, CRYSTAL 8.4672MHz			
X702	1-579-634-11	OSCILLATOR, CERAMIC 3.58MHz			
**********					
*	A-3275-536-A	POWER BOARD, COMPLETE			
		**********			
⚠	1-533-243-11	HOLDER, FUSE			
	7-682-546-04	SCREW +PTT 3X5 (S)			
		< CAPACITOR >			
C130	1-130-495-00	MYLAR	0.1uF	5%	50V
C181	1-124-903-11	ELECT	1uF	20%	50V
C182	1-162-294-31	CERAMIC	0.001uF	10%	50V
C183	1-162-288-31	CERAMIC	330PF	10%	50V
C184	1-124-443-00	ELECT	100uF	20%	10V
C185	1-124-360-00	ELECT	1000uF	20%	16V
C186	1-124-443-00	ELECT	100uF	20%	10V
C187	1-130-497-00	MYLAR	0.15uF	5%	50V
C270	1-126-101-11	ELECT	100uF	20%	16V
C271	1-126-101-11	ELECT	100uF	20%	16V
C273	1-124-360-00	ELECT	1000uF	20%	16V
C274	1-124-472-11	ELECT	470uF	20%	10V
C330	1-130-495-00	MYLAR	0.1uF	5%	50V
C381	1-124-903-11	ELECT	1uF	20%	50V
C382	1-162-294-31	CERAMIC	0.001uF	10%	50V
C383	1-162-288-31	CERAMIC	330PF	10%	50V
C384	1-124-443-00	ELECT	100uF	20%	10V
C385	1-124-360-00	ELECT	1000uF	20%	16V
C386	1-124-443-00	ELECT	100uF	20%	10V
C387	1-130-497-00	MYLAR	0.15uF	5%	50V
C901	1-161-494-00	CERAMIC	0.022uF		25V
C902	1-161-494-00	CERAMIC	0.022uF		25V
C903	1-161-494-00	CERAMIC	0.022uF		25V
C904	1-161-494-00	CERAMIC	0.022uF		25V
C905	1-124-636-00	ELECT	3300uF	20%	25V
		< CONNECTOR >			
* CN204	1-695-140-11	CONNECTOR 13P			
* CN205	1-573-596-11	WAFER, CONNECTOR 4P			
* CN209	1-580-047-11	CONNECTOR 3P			
* CN901	1-695-141-11	CONNECTOR 4P			
* CN902	1-695-142-11	CONNECTOR 3P			
* CN903	1-580-046-11	CONNECTOR 2P			
		< DIODE >			
D201	8-719-989-16	DIODE	1S2472		
D202	8-719-160-34	DIODE	RD6.8F-B2		
D203	8-719-989-16	DIODE	1S2472		
D204	8-719-109-89	DIODE	RD5.6ES-B2		
D209	8-719-989-16	DIODE	1S2472		
⚠D901	8-719-028-07	DIODE	PBM203		
		< FUSE >			
⚠F902	1-532-826-11	FUSE, GLASS TUBE (2.5A 250V)			
		< IC >			
IC204	8-759-230-13	IC	TA8207K		
		< JACK >			
J202	1-507-806-00	JACK 1P (HEADPHONES)			
⚠J901	1-540-009-11	INLET, AC (~AC IN)			
		< LINE FILTER >			
⚠LF901	1-424-664-11	COIL, CHOKE			
		< TRANSISTOR >			
Q210	8-729-200-38	TRANSISTOR	2SC2236-O		
Q211	8-729-283-42	TRANSISTOR	2SB834		
Q212	8-729-230-79	TRANSISTOR	2SD880-YGR		
		< RESISTOR >			
R130	1-249-423-11	CARBON	3.3K	5%	1/4W
R131	1-249-423-11	CARBON	3.3K	5%	1/4W
R181	1-249-410-11	CARBON	270	5%	1/4W
⚠R182	1-217-639-00	FUSIBLE	2.2	5%	1/4W F
R183	1-249-405-11	CARBON	100	5%	1/4W
R271	1-249-417-11	CARBON	1K	5%	1/4W
R272	1-249-408-11	CARBON	180	5%	1/4W
R273	1-249-437-11	CARBON	47K	5%	1/4W
R274	1-249-411-11	CARBON	330	5%	1/4W
⚠R275	1-217-639-00	FUSIBLE	2.2	5%	1/4W F
R330	1-249-423-11	CARBON	3.3K	5%	1/4W
R331	1-249-423-11	CARBON	3.3K	5%	1/4W
R381	1-249-410-11	CARBON	270	5%	1/4W
⚠R382	1-217-639-00	FUSIBLE	2.2	5%	1/4W F
R383	1-249-405-11	CARBON	100	5%	1/4W

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POWER | REC SW (RVS) | REC SW | TUNER

Ref. No.	Part No.	Description			Remark
		< SWITCH >			
S105	1-692-179-11	SWITCH, PUSH (BASS BOOST)			
**********					
*	1-644-449-11	REC SW (RVS) BOARD (CFD-30)			
		**********			
		< CONNECTOR >			
* CN111	1-695-148-11	CONNECTOR 3P (CFD-30)			
		< SWITCH >			
S202	1-692-180-11	SWITCH, PUSH (1 KEY) (REC/PB)			
**********					
*	1-644-450-11	REC SW BOARD (CFD-20)			
		**********			
		< CONNECTOR >			
* CN111	1-695-175-11	CONNECTOR 3P (CFD-20)			
		< SWITCH >			
S202	1-692-180-11	SWITCH, PUSH (1 KEY) (REC/PB)			
**********					
*	A-3275-533-A	TUNER BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-162-206-31	CERAMIC	20PF	5%	50V
C2	1-102-959-00	CERAMIC	22PF	5%	50V
C3	1-162-195-31	CERAMIC	4.7PF	10%	50V
C4	1-161-379-00	CERAMIC	0.01uF	20%	25V
C5	1-124-034-51	ELECT	33uF	20%	16V
C6	1-162-287-31	CERAMIC	270PF	10%	50V
C7	1-124-126-00	ELECT	47uF	20%	10V
C8	1-124-925-11	ELECT	2.2uF	20%	100V
C9	1-124-126-00	ELECT	47uF	20%	10V
C10	1-161-379-00	CERAMIC	0.01uF	20%	25V
C11	1-124-927-11	ELECT	4.7uF	20%	100V
C12	1-124-903-11	ELECT	1uF	20%	50V
C13	1-130-484-00	MYLAR	0.012uF	5%	50V
C14	1-130-484-00	MYLAR	0.012uF	5%	50V
C15	1-124-903-11	ELECT	1uF	20%	50V
C16	1-124-902-00	ELECT	0.47uF	20%	50V
C17	1-124-927-11	ELECT	4.7uF	20%	100V
C18	1-124-907-11	ELECT	10uF	20%	50V
C19	1-124-463-00	ELECT	0.1uF	20%	50V
C20	1-124-463-00	ELECT	0.1uF	20%	50V

Ref. No.	Part No.	Description			Remark
C21	1-102-942-00	CERAMIC	5.0PF	+-0.5PF	50V
C23	1-162-294-31	CERAMIC	0.001uF	10%	50V
C29	1-162-199-31	CERAMIC	10PF	5%	50V
C34	1-162-193-31	CERAMIC	3.3PF	10%	50V
C41	1-161-379-00	CERAMIC	0.01uF	20%	25V
		< FILTER >			
CF1	1-567-198-71	FILTER, CERAMIC			
CF2	1-567-163-11	FILTER, CERAMIC			
CF3	1-527-870-00	FILTER, CERAMIC			
		< CONNECTOR >			
* CN1	1-695-157-11	CONNECTOR 2P			
* CN3	1-695-136-11	CONNECTOR 5P			
		< VARIABLE CAPACITOR >			
CT1-4 VC1-4	1-151-624-11	CAP, VAR, POLYETHYLENE			
		< DIODE >			
D1	8-719-107-94	DIODE	1SS202-1		
D2	8-719-107-94	DIODE	1SS202-1		
D3	8-719-918-76	LED	GL-3PR9 (FM STEREO)		
		< FILTER >			
FL1	1-236-895-11	FILTER, BAND PASS			
		< IC >			
IC1	8-752-050-20	IC	CXA1238S		
		< COIL >			
L1	1-460-118-11	COIL (WITH CORE)			
L2	1-406-393-11	COIL, FM OSC			
L3	1-402-508-11	ANTENNA, FERRITE-ROD (MW)			
L4	1-406-040-00	COIL (OSC)			
		< RESISTOR >			
R1	1-249-441-11	CARBON	100K	5%	1/4W
R2	1-249-421-11	CARBON	2.2K	5%	1/4W
R3	1-249-415-11	CARBON	680	5%	1/4W
R4	1-249-405-11	CARBON	100	5%	1/4W
R5	1-249-427-11	CARBON	6.8K	5%	1/4W
R6	1-249-427-11	CARBON	6.8K	5%	1/4W
R7	1-247-887-00	CARBON	220K	5%	1/4W
R8	1-249-421-11	CARBON	2.2K	5%	1/4W
R9	1-247-887-00	CARBON	220K	5%	1/4W
R10	1-249-429-11	CARBON	10K	5%	1/4W
R12	1-249-411-11	CARBON	330	5%	1/4W

TUNER

Ref. No.	Part No.	Description			Remark
R16	1-249-433-11	CARBON	22K	5% 1/4W	
R17	1-249-423-11	CARBON	3.3K	5% 1/4W	
R22	1-249-415-11	CARBON	680	5% 1/4W	
R29	1-249-400-11	CARBON	39	5% 1/4W	
R40	1-249-429-11	CARBON	10K	5% 1/4W	
R41	1-249-429-11	CARBON	10K	5% 1/4W	
R59	1-249-425-11	CARBON	4.7K	5% 1/4W	
		< VARIABLE RESISTOR >			
RV1	1-241-931-11	RES, ADJ, CARBON 22K			
		< SWITCH >			
S1	1-692-172-11	SWITCH, LEVER (BAND)			
		< TRANSFORMER >			
T1	1-404-925-11	IFT, AM			
**********					
		MISCELLANEOUS			
		**********			
102	1-696-020-11	CABLE, FLAT			
⚠405	8-848-137-11	PICKUP, OPTICAL KSS-210B			
ANT1	1-501-537-11	ANTENNA, TELESCOPIC			
* CNP102	1-695-174-11	CONNECTOR 4P (CFD-20)			
* CNP110	1-695-149-11	CONNECTOR 6P (CFD-30)			
* CNP110	1-695-176-11	CONNECTOR 4P (CFD-20)			
* CNP701	1-695-170-11	CONNECTOR 8P			
* CNP702	1-695-150-11	CONNECTOR 8P			
⚠F902	1-532-826-11	FUSE, GLASS TUBE (2.5A/250V)			
HE901	1-543-558-11	ERASE HEAD (CFD-20)			
HE901	3-379-192-01	ERASE HEAD ASSY (CFD-30)			
HRP901	1-543-424-21	REC/PB HEAD (CFD-20)			
HRP901	X-3365-055-1	REC/PB HEAD ASSY (CFD-30)			
M701	X-2625-132-1	MOTOR GEAR ASSY (MB) (SLED)			
M702	X-2625-133-2	MOTOR ASSY, SPINDLE			
M901	3-379-148-01	MOTOR ASSY (REEL/CAPSTAN) (CFD-20)			
M901	3-379-149-01	MOTOR ASSY (REEL/CAPSTAN) (CFD-30)			
S201	1-571-556-11	SWITCH, LEAF (MAIN) (CFD-30)			
S201	1-572-394-11	SWITCH, LEAF (MAIN) (CFD-20)			
S203	1-571-745-11	SWITCH, LEAF (FWD/RVS) (CFD-30)			
SP101	1-544-743-11	SPEAKER R			
SP301	1-544-743-11	SPEAKER L			
⚠T901	1-450-970-11	TRANSFORMER, POWER			
**********					

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	⚠1-557-287-11	COARD, POWER (E)	
	⚠1-690-952-11	CORD, POWER (EXCEPT E)	
*	3-379-618-01	CUSHION (TOP)	
*	3-379-619-01	INDIVIDUAL CARTON (CFD-20)	
*	3-379-623-01	INDIVIDUAL CARTON (CFD-30)	
*	3-379-685-01	CUSHION (BOTTOM)	
	3-754-849-21	MANUAL, INSTRUCTION (ENGLISH)	
	3-754-849-31	MANUAL, INSTRUCTION (FRENCH) (Canadian)	
	3-754-849-81	MANUAL, INSTRUCTION (CHAINESE) (E)	
**********			
#1	7-685-648-79	SCREW +P 3X12 TYPE2 NON-SLIT	
#2	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT	
#3	7-682-546-04	SCREW +PTT 3X5 (S)	
#4	7-682-149-15	SCREW +P 3X10	
#5	7-685-647-79	SCREW, TAPPING	
#6	7-621-255-40	SCREW +P 2X6	
#7	7-685-133-19	SCREW +P 2.6X6 TYPE2	
#8	7-621-255-35	SCREW +BVTT 2X5 (S) (CFD-30)	
#9	7-628-253-90	SCREW +PS 2.6X4	
#10	7-621-255-15	SCREW +P 2X3	
#11	7-621-255-55	SCREW, TOTSU P 2X8 (CFD-20)	

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